FIBER OPTIC Solutions

Fiber Optic
SOLUTIONS

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TO HELP.

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SECURE ACCESS
and IMPROVE ACCOUNTABILITY
with vending solutions from Border States

Our experience has shown us that you can't just place a vending machine in a facility and expect to reach your goals.

Our customized vending solutions help you reduce consumption, track use by employee and reduce or eliminate stock outs. Other features include:

» Reduced waste and hoarding
» Updated inventory levels in real time
» Automated procurement and replenishment tools
» Less walk-around time

Learn how our trained experts can customize a solution for you. Talk to your Border States Sales team today for more information about vending.

TYPICAL SYSTEM PAYBACK is one year.

SupplyTrax™

SOLUTIONS

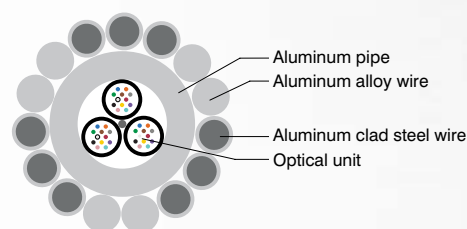**AFL** UNMATCHED PORTFOLIO OF FIBER OPTIC CABLE

AFL's fiber optic cables span a variety of applications including overhead transmission/distribution lines with Optical Ground Wire (OPGW) and All-Dielectric Self-Supporting (ADSS), MicroCore® for above or below ground installations, and inside plant (ISP) and outside plant (OSP) cables that form the backbone of FTTH networks. For electric utilities, enterprise, and service providers, AFL provides innovative cable products that deliver exceptional solutions for our customers.

OPGW CABLE

- » Provides a path for short circuits to ground
- » Protects the circuits from lightning strike
- » Provides an optical pathway for communication on power transmission lines
- » Up to 96 fibers (CentraCore), up to 144 fibers (AlumaCore) and up to 432 fibers (HexaCore)
- » OPGW cable hardware available including dead ends, suspensions, splice enclosures and comealongs
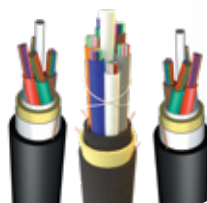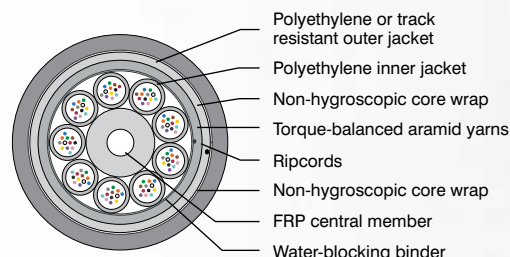
ADSS CABLE

- » All-dielectric self-supporting cable with high and medium voltages for transmission line circuits
- » Span lengths from a few hundred feet to several thousand feet
- » Up to 144 fibers (Mini-Span® and Flex-Span® ADSS) and up to 432 fibers (Standard ADSS)
- » Superior advantages over traditional strand and lash fiber networks
- » ADSS cable hardware available including dead ends, tangent connectors, suspensions, splice enclosures and storage units

MICROCORE® CABLE

- » Small-diameter loose tube cables
- » Optimized for the rigors of Outside Plant (OSP) applications
- » Blown or jetted installation into microduct pathways
- » 12-432 fiber counts
- » 300 lb installation tensile load rating
- » OD compatible with 10 mm to 16 mm inside diameter microducts

PREMISE CABLE

- » Structured cabling and enterprise applications – Outside Plant (OSP), Inside Plant (ISP) and Indoor/Outdoor (I/O)
- » Available in dielectric and armored configurations with flame ratings
- » General purpose, riser, plenum
- » For network routings that include external pathways
- » Provides the Flame Safety requirements for transitions into campus buildings
- » Available in multiple constructions ranging from distribution style single-jacket cable to high fiber count designs

www.AFLglobal.com

AlumaCore, Centra-Core, HexaCore OPGW

36F AlumaCore
- Aluminum pipe
- Aluminum alloy wire
- Aluminum clad steel wire
- Optical unit

Mini-Span, Standard, Flex-Span ADSS

108F Standard ADSS
- Polyethylene or track resistant outer jacket
- Polyethylene inner jacket
- Non-hygroscopic core wrap
- Torque-balanced aramid yarns
- Ripcords
- Non-hygroscopic core wrap
- FRP central member
- Water-blocking binder

OSP MicoCore in microduct

288F OSP MicroCore in 48F sub-units
- Polyethylene Jacket
- Core Binders
- Buffer Tubes
- Ripcords
- Optical Fiber
- Central Strength Member
- WB Binders

I/O Riser Tight Buffered

12F I/O Riser Tight Buffered
- 900 μm Tight Buffered Fiber
- Aramid Yard
- Outer Jacket
- Ripcord (some designs)

Aerial
HARDWARE

Deltec® Cable Support System

Designed to perform a minimum of 20 years outdoors.

» Double-locking head with corrosion-resistant locking barbs in copper alloy
» No sharp edges: operator friendly, cable friendly
» Easy to install, low installation costs
» Extremely robust ties with high tensile strength (1110N) after fastening
» Strapping made of toughened, weatherable acetal
» Temperature range: -65℃ to 90℃ (-85°F to 194°F)
» UV-, moisture- and salt-resistant and halogen-free environments

Mfr. Model #	Description	BSE Part #
TYD-50R	Deltec Strapping on Reel, 0.5" W x 50' L	783150
TYD-LH	Deltec Double-Locking Heads, Pkg. of 25	783149

U-Guard™ — Plastic

Designed to give non-conductive, high impact protection for utility power and communication cables installed vertically on poles.

» Installs quickly and easily with EMC's U-Guard™ fasteners
» Easily field cut to desired length
» Ribbed surface
» Belled end on 2" through 6" provides for overlap on adjacent sections
» Excellent UV protection

Electrical Materials Company
Products for the Utility Industry

Mfr. Model #	Description	BSE Part #
PE-1UG8	1" x 8" Flanged Riser	3294785
PE-1.25UG10	1-1/4" Plastic	3384451
PE-2UG10-BOX	2" x 10" Flanged Riser	1177009

15° Communication Standoff Bracket

» Medium duty
» Fiberglass units do not warp, split or shrink
» All units are coated with a special ultraviolet-resistant polyurethane gray paint or silicone coating
» Shipped ready to install

HUBBELL

Mfr. Model #	Length	Fiberglass Diameter	Min Ultimate Vertical Load	Min Ultimate Longitudinal	Min Ultimate Transverse	Weight Ea	BSE Part #
1CSM12	12"	1-1/2"	2100	1300	1500	3.8 lbs.	800244
1CSM18	18"	1-1/2"	1500	1000	1500	4.6 lbs.	129910
1CSM24	24"	1-1/2"	1100	700	1500	5.4 lbs.	800245

Formed Wire Deadend for Guy Strand 1/4"

For deadend applications of support guy wires. FWDE will hold a minimum of 100% of the guy wire rated breaking strength.

» For HSS, EHS, Common, Siemens-Martin, Utilities and Bell System Strand grades
» Zinc plated (B-coat) EHS steel construction
» 6650lb (29.6KN) maximum RBS

HUBBELL

Mfr. Model #	Nominal Size	Maximum RBS	Nominal Length	Diameter Range	Color Code	Units per Box	Weight per Box	BSE Part #
FWDE1104	1/4"	6650 lbs.	25"	0.231–0.259"	Yellow	50	24 lbs.	1720219

Formed Wire Galvanized Steel Splice

FWLS series formed wire are designed for use on all types of galvanized guy wire (EHS, High Strength, Common, Siemens-Martin, Utilities, and Bell System Strand).

» For repairing damaged or severed guy wire or messenger cable
» FWLS will hold a minimum of 100% of the guy wire rated breaking strength (ultimate strength) when centered over the severed or point of damage
» Consult factory for information on use if damaged area exceeds length of splice
» Left hand lay standard

Mfr. Model #	Nominal Size	Max RBS	Nominal Length	Diameter Range	Number of Subsets	Color Code	Units Per Box	Box Weight	BSE Part #
FWLS2104	1/4" (3W & 7W)	6650 lbs.	35"	0.231–0.259	2	Yellow	50	34 lbs.	3400405

Guy Hooks

For attaching a guy wire to the pole. Galvanized to ASTM A-153.

» Guy Hook, 1 bolt style (5004), keeps guy wire from creeping downward in wrapped guy applications. Hooks should be used under bolt heads for maximum shear strength
» Cast ductile iron guy-hook attachment (aka Ram's Head or Goat Hook) for deadending guy and messenger wire (GH5). Minimum ultimate tensile strength is 12,400 lbs. and maximum strand size is 7/16" Includes 11/16" upper hole, 9/16" lower hole and backside cleats for wood pole installation. Manufactured to specificaiton IEEE C135.90

Mfr. Model #	Bolt Hole Dia.	Weight Ea.	BSE Part #
5004	9/16"	.67 lbs.	614306
GH5	11/16"	1.3 lbs.	792503

Drive Hooks

» Hooks used to attach wedge type service drops and deadend clamps to crossarms, poles or buildings

Mfr. Model #	Size	BSE Part #
C2050190	7/16" Dia, 4-3/4" L	100040
PSC2050605	5/16" Dia, 3-1/2" L	3497868

Lag Screws

» Galvanized per ASTM A-153
» Upset shoulder

Mfr. Model #	Thread Type	Head Shape	Diameter	Length	Point Type	BSE Part #
508753	Fetter	Square	1/2"	3"	Drive	130557
8722GP	Gimlet	Square	1/4"	2"	Regular	573402
DF1L3	Gimlet	Hex	1/4"	3"	Regular	146561

Square Head Machine Bolts

» Square head machine bolts have 5/8" diameter and cone point
» Includes one square nut
» Rated tensile strength is 12,400 lbs.
» Hot dip galvanized per ASTM A-153
» Manufactured in compliance with ANSI C135.1
» RUS listed, c - Bolt, machine

Mfr. Model #	Length	Min Thread Length	Weight Ea	BSE Part #
8808	8"	4"	0.78 lbs.	130471
8810	10"	4"	0.93 lbs.	130473
8812	12"	6"	1.08 lbs.	130474
8814	14"	6"	1.23 lbs.	130475
8816	16"	6"	1.40 lbs.	130476
8818	18"	6"	1.54 lbs.	130477
8820	20"	6"	1.71 lbs.	130478
8822	22"	6"	1.76 lbs.	100837

CONSTRUCTION

Eyenuts, Eyelets, and Nuts

» Eyenuts are commonly used for deadending, back-guying and attaching pole head guys on the threaded ends of crossarm bolts. Drop-forged, hot-dip galvanized steel

» Eyelets are used on ordinary machine bolts for straight-away guys. Rounded groove protects guy strand from sharp kinks and bends. Drop-forged galvanized steel. Construction for high-strength applications

» Curved lock nut (3512) is made to give tight connections

HUBBELL

Mfr. Model #	Thread Type	Head Shape	Diameter	Length	BSE Part #
6502	Eyenut	5/8"	Yes	.675	130403
6510	Eyenut	5/8"	Yes	.865	130405
6519	Eyelet	5/8"	No	1.25	130407
3512	Lock Nut	5/8"	Yes	.04	130351
55084P	Square Nut	5/8"	Yes	0.1	573322

3-Bolt Messenger Suspension Clamps

» Used with 5/8' diameter through bolt to support cable at poles at corner or angled runs (7902L) or straight runs (7903)

» Through bolt also serves as clamping member

» Two carriage colts included

HUBBELL

Mfr. Model #	Type	For Strand Size	Length	Center Hole Dia	Weight Ea	BSE Part #
7902L	3-Bolt Angle	1/4" thru 7/16"	7"	11/16"	2.04 lbs.	574470
7903	3-Bolt Straight	1/4" thru 7/16"	5-3/4"	11/16"	1.78 lbs.	130451

Square Washers

» Square flat washer with 11/16" diameter hole for 5/8" diameter bolt

» Manufactured in compliance with NEMA PH-10

» Galvanized per ASTM A-153 or ASTM B695

» RUS listed

HUBBELL

Mfr. Model #	Washer Size	Hole Diameter	Bolt Diameter	Weight Ea	BSE Part #
6812	2 x 2 x 1/8"	11/16"	5/8"	0.12 lbs.	130425
6813	2-1/4 x 2-1/4 x 3/16"	11/16"	5/8"	0.24 lbs.	130426

Straight Thimbleye® Bolt

» Internal eye dimensions are 9/16" x 11/16"

» Includes one square nut

» Rated tensile strength is 12,400 lbs.

» Hot dip galvanized per ASTM A-153. RUS listed, ao - Bolt, strand eye, straight (thimble eye).

» Contoured eye keeps guy strand from kinking, bending or spreading

» Drop-forged steel

HUBBELL

Mfr. Model #	Size	Thread Length	Weight Ea	BSE Part #
5510	5/8 x 10"	4"	1.48 lb.	130386
5512	5/8 x 12"	6"	1.76 lb.	130387
5514	5/8 x14"	6"	1.88 lb.	614470
5516	5/8 x16"	6"	1.92 lb.	614472

Corner Attachment Bracket

» Integral thimble eye pole attachment for dead ending strand and guy grips at angles of 35 to 60 degrees

» Pole mounting surface is curved with integral spurs for stability during mounting and life of installation

» Accomodates maximum 1/2" diameter strand/guy grips

» Ductile iron per ASTM A536, galvanized per ASTM A153

HUBBELL

Mfr. Model #	Coating	Carton Qty	BSE Part #
PSC2080479	Galvanized	20	3547030

For all of your
TOOLS & TEST EQUIPMENT NEEDS,
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Span Clamps

C Span Clamp
» Provides drop wire clamp attachment at the mid-span
» Accepts strand size range of 1/4" to 3/8"
» Clamp plates are aluminum with 3/8" steel hardware
» Threads are staked to prevent loss of nut during installation
» Galvanized coating
» Carton quantity: 100

D Lashing Clamp
» Secures terminated lashing wire in aerial applications
» Accepts strand size range of 1/4"–7/16"
» Stud is staked to prevent loss of nut

E Span Clamp
» Provides drop wire clamp attachment at the mid-span
» Accepts strand size range of 1/4" to 7/16"
» Clamp plates and 3/8" hardware are steel
» Threads are staked to prevent loss of nut during installation
» Meets BellCore standard CA08391
» Galvanized coating
» Carton quantity: 50

Q Span Clamp
» Provides drop wire clamp attachment at the mid-span
» Accepts strand size range of 1/4" to 7/16"
» Clamp plates and 1/4" hardware are galvanized steel
» Threads are staked to prevent loss of nut during installation

Multidrop Span Clamp
» Used to attach multiple drop cables at one location using drop wire clamps or direct attachment
» Bolt staked to prevent loss of nut during installation
» Accepts 1/4" strand
» Galvanized per ASTM A-153
» PSC2080475 carton quantity: 100
» PSC2080475 carton quantity: 50

Mfr. Model #	Description	BSE Part #
CCSC	C Span Clamp	3546968
CDLC	D Lashing Clamp	3547031
CESC	E Span Clamp	3546968
CQSC	Q Span Clamp	3546973
PSC2080475	Multidrop Span Clamp	3546971
PSC2080572	Multidrop Span Clamp with Ground Screw	3546972

Straps and Spacers

Spacer creates space between messenger strand and aerial cable.

» Bell spacer is black UV-stabilized plastic
» Stainless steel lashing strap is 3/4" wide and used to support cables or cable bundles on the messenger
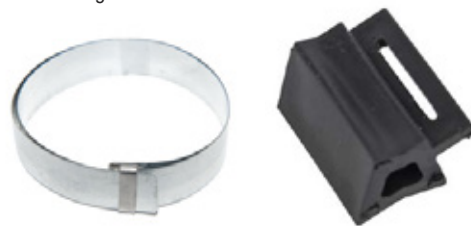
Mfr. Model #	Type	Size	Material	Carton Qty	Weight Ea	BSE Part #
PSC2080421	Bell Spacer	1/2"	Plastic	4000	.011 lbs.	3400401
C10SSLC	Lashing Strap	10"	Stainless Steel	500	0.026 lbs.	3400402
C16SSLC	Lashing Strap	16"	Stainless Steel	500	0.04 lbs.	3303748

Automatic Guy Wire Deadend

3/16" EHS, Common, Siemens-Martin, Utilities and Bell System Strand.

» Innovative yoke design allows for installation without the use of a gripping hook

Mfr. Model #	Guy Wire Size	Range	Carton Qty	BSE Part #
GDE5199	3/16" 7 Strand	0.145–0.215"	50	3547037

Automatic Aluminum Guy Wire Splice

Full tension auto splice, for 5/16" Alumoweld, HS, Common, Utilities, Siemens-Martin guy grades.

» Individually bagged to seal out dirt before use
» For splicing applications with overhead or support guy wires
» Hold a minimum of 90% of the guy wire rated breaking strength

Mfr. Model #	Primary Strand Application	Range	Length	Diameter	BSE Part #
GLS5041	5/16" EHS, 7#10 (10M), 7#11 (8M) AW	0.270"–0.315" (6.86–8.00)	8.6"	1.22"	2243653

Cable Suspension Clamp

Used with through bolts to serve as a clamping member.

» Made from rolled, high quality steel, hot dip galvanized per ASTM A153 for maximum corrosion protection

» SI-1740 and J1096 conform to Bellcore specification 8623

MacLean ™
NETWORK SOLUTIONS

Mfr. Model #	Description	Carton Weight	BSE Part #
J1096	Cable Suspension Clamp	43 lbs.	580788
SI-1740	Cable Suspension Clamp	45 lbs.	1473246
SI-1755	Cable Suspension Clamp, Curved	53 lbs.	1473247

Strandvise Connector

Used for deadend applications with overhead or down guy wire.

» Rated to hold a minimum of 90% of RBS of the strand used

» Color indicator for easy identification

» "Universal Grades" are recommended for use with Alumoweld, EHS, aluminized and galvanized steel strand

MacLean ™
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
5199	Strandvise Connector, 3/16" Universal Grade Strand, Red	133613

Guy Hook

Used for down and span guys.

» Constructed of ductile iron, hot dip galvanized

» Features smooth grooves to eliminate chafing of the strand

» Accepts a wide range of strand diameters

» 5/8" mounting hole

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NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-4425	Guy Hook, Bellcore Specification 7909	3535158

Drive Hooks

Used for securing drop wire attachments and service drops.

» Rolled fetter drive threads and pilot point for east starting

» Constructed of hot dip galvanized

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NETWORK SOLUTIONS

Mfr. Model #	Description	Dimensions	Other	BSE Part #
J3316P	Drive Hook, Bellcore Specification 7365	7/16" x 4-3/4"	—	149789
J3318	Drive Hook, Bellcore Specification 7365	7/16" x 4-3/4"	Strike Pad	580572
SI-3000	Drive Hook, Bellcore Specification 7365	5/16" x 3-1/2"	—	3486527

Lashing Hardware

Used for deadend applications with overhead or down guy wire.

» Steel

» Lashing Wire is used for easy and permanent termination of lashing wire to messenger strand

» Lashing Strap is used to strap CATV & telephone cable to steel strand in aerial construction

» Straps are .010" thickness x 3/4" wide

» Strap edges are processed to be smooth and free of burrs

» Polyethylene spacer is 1/2" wide

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NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-2175	D Cable Lashing Wire Clamp, Accepts 1/4" (6.6M) to 7/16" (16M) Messenger Strand	1473253
SI-7511-10	10" Lashing Strap	3012400
SI-7511-16	16" Lashing Strap	3535159
SI-7512-050	1/2" Lashing Strap Spacer	3012401

Lashing Wire

Used to support CATV and Telephone cable to messenger strand in aerial construction.

» Made from high strength non-corrosive steel

» Wire is fully annealed and wax coated for ease of use

MacLean ™
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-9609	Lashing Wire	3535160

CONSTRUCTION

Span Clamps

» E-Span clamp is used for mid-span drop wire take offs and holds cable away from obstacles in the line of aerial construction
» Q-Clamps are designed for strand
» Multi-span clamps are designed for 1/4" messenger strand and provide fast, easy mid-span take-offs for service drops
» C-span clamps are made for 1/4" to 3/8" strand

MacLean ™
NETWORK SOLUTIONS

Mfr. Model #	Description	Strand Size	Standard Pack Quantity	Carton Weight	Material	BSE Part #
SI-0024	E Span Clamp	1/4"–7/16"	100	40 lbs.	Hot-Dipped Galvanized Steel	3458741
SI-0513	Q Span Clamp	1/4"–7/16"	120	22 lbs.	Mechanically Plated Steel	3162136
SI-0514	O Span Clamp	1/4"–3/8"	200	22 lbs.	Mechanically Plated Steel with Aluminum Plate	3521319
SI-0515	Multi Span Clamp	1/4"	100	22 lbs.	Mechanically Plated Steel	3521321
SI-0515GC	Multi Span Clamp	1/4"	100	18 lbs.	Mechanically Plated Steel	3521322
SI-0515MB	Multi Span Clamp	1/4"	120	22 lbs.	Mechanically Plated Steel	3521323
SI-0952	C Span Clamp	1/4"–3/8"	200	48 lbs.	Mechanically Plated Steel with Aluminum Plate	3521320

Corner Attachment

» Constructed of ductile iron, hot dip galvanized
» Corner attachment clamps are used for 35 & 60 degrees
» The inner pole mounting surface is curved with integral spurs for contact
» The integral thimbleye will accept deadening devices up to 1/2" diameter
» Accommodates 5/8" diameter pole mounting

MacLean ™
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
P294	Corner Attachment	2403801

16" Plastic Sno-Shoe® with Mounting Bracket and Hardware

Durable and cost-effective solution for storing fiber optic cable in the air.

» Prevents micro-bends in fiber optic cable
» Provides consistency and regularity in fiber optic loops
» Solution to spacing problems on poles
» Countersunk nut wells for easy one-tool installation
» Stackable in multiple cable configurations to accommodate fiber mount tiering
» Cable Trough™ has slots that secure the cable to the unit in expansion situations without having to remove previously installed cable and drain water and ice
» Cable Trough™ design leaves installers' hands free to secure cable to the unit
» Dimensions: 24.0" L x 18.0" W x 1.5" D

Fiber Slack Storage

» Allows for option to mount fiber enclosure
» Includes 4 welded hooks for cable slack storage
» Powder coated steel

Multilink®
Innovation At Work

Mfr. Model #	Dimensions	Material	BSE Part #
065-058-10	30"H x 26"W x 1.5"D	Powder Coated Steel	3386428

Multilink®
Innovation At Work

Mfr. Model #	Description	Mounting Kit	Weight	Bend Radius	Quantity	BSE Part #
71244K	16" Plastic Sno-Shoe	Strand	4.4 lbs.	8"	2 Per Pack	1993958

CONSTRUCTION

Dura-Ty® Cable Ties

» Weather, chemical, and UV-resistant for harsh outdoor power and communications applications

» Durable locking mechanism, complete with double stainless steel locking barbs, provides a consistent, reliable connection and high-impact resistance and strength

» Extra-heavy cross section, are made of weather resistant acetal

PANDUIT®

Mfr. Model #	Description	Color	Height	Width	Length	Std. Pkg. Qty.	Std. Ctn. Qty.	BSE Part #
DTHEH-Q0	Cable Tie Heads	Black	0.49"	0.72"	—	50	1000	1201703
DTREH-LR0	Strapping	Black	—	0.50"	50 ft. Reel	—	—	1201701
SACS50-T100	Stackable Spacers	Black	0.5"	1.2"	2.1"	200	2000	562924

GUY-GRIP® Dead-End

Anchors millions of utility poles all over the world.

» Rated at 100% of the strand's published rated breaking strength

» Intended for single use but can be reinstalled twice within 90 days
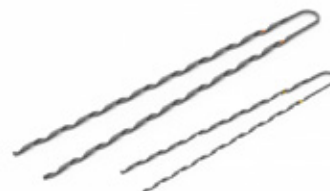
PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Coat Type	Size	Strand Construction	Mean Diameter	Length	Color Code	Units Per Carton	Weight Per Carton (lbs.)	BSE Part #
GDE-1104	B-Coat	1/4"	3W/7W	.259"/.240"	25"	Yellow	50	24	161277
GDE-1107	B-Coat	3/8"	3W/7W	.356"/.360"	35"	Orange	50	51	161109

Guy Marker

» Designed to identify down guys or other wire and cable installations where anchoring devices are exposed to pedestrian and/or vehicular traffic

» Comes in four different profiles with six attachment combinations

» Manufactured out of Polyethylene or PVC

» Premium UV inhibitors for long life span

» One or two piece designs

» Lightweight

» Installs on down guys in seconds

» Easily installed on strand sizes ranging from 3/16"–1/2" (4.7–12.7 mm)

» Reflective stripe option available

» Deters vandalism

» Ships in boxes, bags, or on bulk pallets

PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Length	Color	Material	Tube Profile	Tube OD	Attachment Type	BSE Part #
PGMS3921	8'	Yellow	Poly	Round	1-1/2"	UCT	3173794

Strand Splice

Intended for use on guys or messengers.

» Rated for 100% of the strands published rated breaking strength unless otherwise noted

» Made of the same basic material as the strand to which they are applied

PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Coat Type	Size	Strand Construction	Mean Diameter	Length	No. of Subsets	Color Code	Units Per Carton	Weight Per Carton (lbs.)	BSE Part #
GLS-2104	EHS C-Coat	1/4"	7W	.240"	35"	2	Yellow	50	34	1079586
GLS-2107	EHS C-Coat	3/8"	7W	.360"	50"	3	Orange	25	38	161116

SLACKLOOP® In-Span Cable Storage Brackets

Designed to make aerial slack cable storage faster and easier.

» During installation, the cable is clipped into the tabs and the storage bracket is pulled into its final position at the back of the cable loop. The cable is secure and the installer's hands are free to apply cable ties
» 12" (30.5 cm) and 16" (40.6 cm) diameter sizes
» Available with hanger brackets for either lashed messenger cable systems or ADSS
» Vertical stacking of multiple cables provides large storage capacity in a small profile
» Abrasion Protectors or Uni-Group Cable Guide are offered as pole pass options for cable slack against the pole

PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Material	Size	Units Per Carton	BSE Part #
FIS16A	16" SLACKLOOP In-Span Bracket, ADSS	Plastic	16"	2	3535161
FIS16M	16" SLACKLOOP In-Span Bracket, Strand	Plastic	16"	2	3535162

SLACKLOOP® Vertical Cable Storage Bracket — Fixed Crossarm

Fixed Crossarm Systems are crossarms that are bolted together with a vertical member that can be bolted or banded to the structure.

» Metal channel structural frame provides a durable light-weight design with ridged strength that is easy to install
» Corrosion resistant aluminum
» Bolt together fixed Crossarm packs in uniform low profile container that reduces shipping cost and is easier to inventory — supports a 33" loop diameter for ADSS cables
» Multiple keyholes adapt various splice cases
» Wide cable keepers avoid point loads and provide better cable support

PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Material	Size	Units Per Carton	BSE Part #
8004072	SLACKLOOP Vertical Cable Storage Bracket — Fixed Crossarm	Aluminum	43" x 43"	1	3460096

ANCHORS

Auxiliary Eye

» Bolts to existing anchor rods to add an additional point of attachment for guying
» Can be used as pulling eye for guy tensioning
» Minimum ultimate tensile strength is 18,000 lbs.
» Thimble hole is 5/8" x 1"
» U-bolts are 1/2" diameter
» Cast ductile iron body and spacers
» Galvanized per ASTM A-153

HUBBELL

Mfr. Model #	Description	BSE Part #
BB155A	Auxiliary Eye, for 5/8" to 1" Rods	782169

PISA 6 Anchor

» Anchor has curvilinear leading edges to help penetrate rocky soils and to reduce damage during installation
» 1" threads to fit 3/4" and 1" diameter Pisa rod
» Anchors are painted with a black paint
» Installed with Chance anchor wrench C3031064 or C3030983

HUBBELL

Mfr. Model #	Description	BSE Part #
E1020822	Pisa 6 Anchor Helix- 6,000 Ft Lbs (8,136 N-M), Two 8" (203mm) Helices for Use With 0.75" (19.1mm) or 1" (25.4 mm) Rod	569422

Bust Expanding Anchor

» Expand to take full advantage of the eight blade wedges to expand into undisturbed soil
» Hot dipped galvanized per ASTM A153
» Nut retainer on bottom of anchor holds nut in place during installation
» The effectiveness of the anchor is dependent upon proper size hole and the thoroughness of backfill tamping

HUBBELL

Mfr. Model #	Description	BSE Part #
108234	Expanding Anchor for 10" (254mm) Hole Used with 0.75" (19.1mm) Diameter Rod	130337

Galvanized Anchor Rod

» Available for one, two or three guys for use with expanding and Cross Plate Anchor
» Twineye® rods distribute pulling stresses uniformly over individual strands of guy wire and keep the guy wire from spreading, kinking or bending.
» Hot dipped galvanized per ASTM A153
» Square nut assembled to rod
» Rods used with Cross-plate and Expanding anchors

HUBBELL

Mfr. Model #	Description	BSE Part #
5358	Expanding/Cross-Plate Anchor Rod 0.75" (19.1mm) Diameter Rod, 8' (2438mm) Long with Twineye	130379

Rock Anchor

» Anchor expands and wedges against solid walls of rock
» The large drop-forged Tripleye® rod holds up to three guy strands
» Requires 2" diameter hole in competent rock a minimum depth of 12"
» Hot dipped galvanized per ASTM A153

HUBBELL

Mfr. Model #	Description	BSE Part #
R353	Expanding Rock Anchor 0.75" (19.1mm) Diameter Rod, 53" (1346mm) Long with Tripleye.	100390

No Wrench Anchors

» Hot dipped galvanized per ASTM A153
» Can be installed by hand or machine to a greater depth to reach a firmer soil by using an extension rod

HUBBELL

Mfr. Model #	Description	BSE Part #
6346	No-Wrench 66" (1676mm) Long with 6" (152mm) Helix Tripleye	130393
PS816	No-Wrench 66" (1676mm) Long with 8" (203mm) Helix Tripleye	130313

Drop
HARDWARE

Steel City® Aluminum Service Cap

Clamp-type service cap for use with rigid/intermediate or thinwall conduit

» Used with 1" trade size conduit
» Includes 5 holes
» Hole sizes: (2) 7/16" and (3) 1/2"
» UL listed, CSA certified

ABB

Mfr. Model #	Description	BSE Part #
SH103	Steel City Aluminum Service Cap for 1" Conduit	162211

S-Clips

» Form a loop with the cable end and place within the sides of the clip
» Pinch closed to secure the cable
» Factory formed to simplify field installation
» Aluminum

HUBBELL

Mfr. Model #	Type	Weight Ea.	Package Qty	BSE Part #
PSC2170155	For 1-2 Pair Cable	.005	500	3546966
PSC2170156	For 6 Pair Cable	.005	500	3546967

CONSTRUCTION

Drop Wire Clamp for 2-Pair Cable

» Body and serrated shim are 304 stainless steel; and wire bail is 430 stainless
» Packaged as 2 clamps per bag, 25 bags per box and 8 boxes per master carton
» Rated for 555 lbs. per Telcordia specification GR-3174
» Common industry term is P Clamp

HUBBELL

Mfr. Model #	Material	Weight Ea	BSE Part #
C2PRSS	Stainless Steel	0.11	3547032

Drop Wire Hook

» Attaches at the home or building with 1/4" hardware (not provided)
» Loop drop wire clamp bail over ram's horn hook

HUBBELL

Mfr. Model #	Material	Carton Qty	BSE Part #
CRHH	Steel	200	3547033

Drop Clamp for Flat Fiber Cable

Drop wire clamp for attaching flat fiber type communications cable to hooks, or span clamps that are installed on buildings, poles or at mid-span.

» Body and serrated shim are 304 stainless steel; wire bail is 430 stainless
» Strength exceeds the rated tensile strength of the applicable cable
» Designed to fit various brands of flat fiber cable
» Black powder coated components for identification

HUBBELL

Mfr. Model #	Material	Carton Qty	Shim Style	Weight Ea	BSE Part #
FFD12SS	Stainless Steel	25	Serrated	1.6 oz	3547034

Wrenchable P House Hook

With wood screw thread for attachment at home or building. Loop drop wire clamp bail over 'P' section of house hook.

» Uses 7/16" driver to install

HUBBELL

Mfr. Model #	Length	Screw Thread	Material	Carton Qty	BSE Part #
PSC2170096	4-1/2"	#14	Steel	100	3546970
PSC2170095	3-3/4"	#14	Steel	200	3547035

Messengered Coax Drop Clamp

Attaches to hooks and span clamps to secure ends (pole, building or mid-span) of CATV messengered service drops.

» Clamp — 5052-H32 aluminum
» Clamp bail wire — 430 stainless

HUBBELL

Mfr. Model #	Material	Weight Ea	BSE Part #
CMDCA	Aluminum	.05 lbs.	3382270

Drop & House Hooks

Used to secure drop cable or steel messenger wire at the pole or house.

» Constructed of high quality steel, mechanically plated for maximum corrosion protection
» Drop wire hook is shaped for attaching drop wire clamps or drop wire to house

MacLean NETWORK SOLUTIONS

Mfr. Model #	Description	Standard Pack Quantity	Carton Weight	BSE Part #
SI-1130	Drop Wire Hook	400	7 lbs.	1078511
SI-0010	House Hook, P Type, 3-3/4"	100	7.5 lbs.	3017318
SI-0010CW	House Hook, Wrenchable P Type, 4-1/2"	100	6.4 lbs.	3381483
SI-0012	House Hook, T Type, 3 Hole	100	10 lbs.	3521330

CONSTRUCTION

Wirevise Connectors

Used to deadend galvanized steel messenger mid-span of a service drop.

» Rated to hold a minimum of 90% of RBS wire specified

» Designed to support both ends of self-supporting multi-pair drop wire that uses a solid galvanized steel messenger wire that is integrated into the jacket in a Figure-8 configuration

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Wire Range	Overall Length	Cartridge Length	Bail Width	BSE Part #
5056	.062–.100, 16,15,14,13 USSWG	5.5"	1.55 "	1.60	1293492
5058	.091–.114, 13, 12 USSWG	5.5"	1.47"	1.60"	1293495
5062	.120–.135 , 11 USSWG, 10 USSWG	7.70"	2.46"	1.50"	1293490

Drop Wire Clips

Convenient clips for drop wire installations.

» Plated steel E Drop Wire Clips are used to secure drop wire to wood or masonry surfaces

» Aluminum SC Drop Wire Clips are used to loop and hold a drop wire to itself for snub attachments

» SC clips fasten to drop wire easily with a pair of pliers

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	Standard	Cable Size	Inner Pack Quantity	Standard Pack Quantity	Carton Weight	BSE Part #
RE2	E Drop Wire Clip, 2 Pair	Bellcore standard 7590	.200" x .390"	—	3000	28 lbs.	2755687
RE6	E Drop Wire Clip, 6 Pair	Bellcore standard 7590	.250" x .550"	50	900	15 lbs.	2755633
SI-0987	E Drop Wire Clip, 2 Pair	Bellcore standard 7590	.200" x .390"	50	3000	28 lbs.	1078512
SI-0984	SC Drop Wire Clip	Bellcore standard 7226	6 Pair	—	1000	17 lbs.	3521324
SI-0985	SC Drop Wire Clip	Bellcore standard 7226	2–3 Pair	—	1000	7.5 lbs.	3521325
SI-0986	SC Drop Wire Clip	Bellcore standard 7226	1–2 Pair	—	1000	6 lbs.	3521326

Drop Clamps

Used to strain relieve telephone drop wire and support messenger drop clamp between the pole, mid-span and house.

» Drop Wire Clamp is used to strain relieve telephone drop wire (1 to 6 pairs; is removable

» Fiber Drop Clamp is used to strain relieve fiber drop cable

» Messenger Drop Clamps are used to support messenger drop clamp between the pole, mid-span and house

» Messenger Drop Clamps accept RG 6, RG 6Q, RG 11 and RG 59

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	Standard Pack Quantity	Carton Weight	Material	BSE Part #
SI-0956	Drop Wire Clamp	250	23 lbs.	Premium Stainless Steel Body And Shim	150128
SI-0972SBC	Fiber Drop Clamp	250	23 lbs.	Premium Stainless Steel Body And Shim	3521318
SI-0972	Fiber Drop Clamp	100	14 lbs.	Premium Stainless Steel Body And Shim	3396294
SI-0972SBL	Fiber Drop Clamp	250	23 lbs.	Premium Stainless Steel Body And Shim	3226507
SI-0969	Messenger Drop Clamp	500	25 lbs.	Stainless Steel Wire, Aluminum Body	3521327
SI-0969INS	Messenger Drop Clamp with Insulator	100	7 lbs.	Stainless Steel Wire, Aluminum Body	3521328
SI-0969INS1	Messenger Drop Clamp Insulator	2000	28 lbs.	Stainless Steel Wire, Aluminum Body	3521329

CONSTRUCTION

Duct & CONDUIT

Galvanized Rigid Steel Conduit

Furnished in 10 foot lengths with both ends threaded, with coupling screwed in one end.

» Hot dipped galvanized or metallized

Mfr. Model #	Size	Length	BSE Part #
2GRC	2"	10'	162399
4GRC	4"	10'	162368

Carlon® Liquid-Tight Flexible Nonmetallic Conduit

Lightweight and easy to install, yet provides excellent cable protection.

» Lightweight for easy handling, transportation and installation
» Crush-, abrasion- and strain-resistant
» Smooth interior, ideal for pulling cable — no jagged edges
» Maintains internal dimension even in tight-radius bends
» cULus listed

ABB

Mfr. Model #	Description	BSE Part #
15008-100	Carlon Liquid-Tight Flexible Nonmetallic Conduit, Gray, 1" Trade Size, 100' Coil	2390371

Carlon® Schedule 40 PVC Conduit Elbows

Nonmetallic conduit elbows with plain or belled end.

» Gray PVC construction
» UL listed

ABB

Mfr. Model #	Bend Radius	Angle	Trade Size	End Style	BSE Part #
UA9AD	Standard	90°	1/2"	Plain	968217
UA9ADB	Standard	90°	1/2"	Belled	106376
UA9AE	Standard	90°	3/4"	Plain	104261
UA7AD	Standard	45°	1/2"	Plain	104384
UA7ADB	Standard	45°	1/2"	Belled	104047
UA7AE	Standard	45°	3/4"	Plain	104390
UA7AG	Standard	45°	1-1/4"	Plain	104400
UA9DJ	24"	90°	2"	Plain	173523

Carlon® PV Mold Nonmetallic Pole Riser System

Designed to protect communications power cable installed on poles.

» Heavy-wall Schedule 40 construction
» 2" trade size

ABB

Mfr. Model #	Description	BSE Part #
59011N	Carlon PV Mold Riser Pole System, 2"	103863

Carlon® Nonmetallic Conduit Bodies

With unthreaded hubs and textured lids with foam-in-place gaskets.

» For use with Schedule 40 and 80 PVC conduit
» UL listed, CSA certified

ABB

Mfr. Model #	Configuration	Trade Size	Capacity	BSE Part #
E984FCAR	Type LL	1"	12 cu. in.	105196
E985F	Type LR	1"	12 cu. in.	105231
E986D	Type LB	1/2"	4 cu. in.	106307
E986F	Type LB	1"	12 cu. in.	105154
E986G	Type LB	1-1/4"	32 cu. in.	106311
E983F	Type T	1"	12 cu. in.	105261

Carlon® Nonmetallic Conduit Couplings and Adapters

Rugged PVC construction

» For use with Schedule 40 and 80 PVC conduit
» UL listed, CSA certified

ABB

Mfr. Model #	Description	Trade Size	BSE Part #
E943D	Male Terminal Adapter	1/2"	104723
E943F	Male Terminal Adapter	3/4"	104741
E943J	Male Terminal Adapter	2"	104787
E943N	Male Terminal Adapter	4"	104839
E940D	Standard Coupling	1/2"	104445
E940E	Standard Coupling	3/4"	104450
E940F	Standard Coupling	1"	104456
E940J	Standard Coupling	2"	104467
E940N	Standard Coupling	4"	104497
E940R	Standard Coupling	6"	104506
E958F	End Cap	1"	104679

HDPE Conduit

Blue Diamond HDPE products protect many of the largest fiber optic networks in the United States.

» Easy installation, HDPE is the preferred material for HDD because of its long continuous lengths and high pull strength
» A wide temperature range for installation, from -20°C to 90°C operating temperature for cables
» A low coefficient of friction (20% lower than PVC) to allow for long cable pulls
» Tough, durable and a life expectancy well over that of the fiber/cable inside
» Replace or repair fiber/cable lines without digging or trenching
» Chemical and corrosion resistance
» Blue Diamond complies with RUS/USDA standards, meets Buy America Requirements and all national specifications including ASTM, NEMA, and UL

BLUE DIAMOND Industries, LLC

Mfr. Model #	Description	BSE Part #
BDI095OR-T18W-T10	3/4" Schedule 40, Orange, 18 GA Tracer Wire, #1000 Pull Tape	3387731
BDI134OR	1-1/4" SDR 13.5 Orange, Empty	3458367
BDI214OR	2" SDR 13.5 Orange, Empty	3381464
BDI414OR	4" SDR 13.5 Orange, Empty	3381465
BDI614OR	6" SDR 13.5 Orange, Empty	3546502

1" Type LB PVC Conduit Body

CANTEX 1" Conduit Body Type LB provides pull, splice and tap access for conductors in a conduit system along with a change in direction.

» Provides a 90° turn in conduit run
» Made from non-conductive PVC
» Will not rust or corrode
» Includes lid, gasket and screws
» For use with Schedule 40 & 80 conduit
» Made in USA

CANTEX

Mfr. Model #	Description	BSE Part #
5133665	UL LISTED QCMZ, 1.313" Hubs, 90° Turn, 11.8 Cubic Inches, 3-Wire Fill for #6 or Smaller, Neoprene Gasket, Zinc Plated Steel Screws	3326855

Riser Pipe

Protect your fiber from the ground to the NID.

» Variety of options
» Curved and notched
» Slit back option for easy cable insertion
» Low cost job "insurance" for delicate fiber installations

Charles

Mfr. Model #	Description	Standard Pkg.	BSE Part #
119/122 Series (7/8" diameter)			
12-119	5' Straight with Offset & Notch, 2 Clamps	30	167602
219/222 Series (1-1/4" diameter)			
12-219	5' Straight with Offset & Notch, 2 Clamps	15	167575

ConQuest® Empty Conduit

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
CX3199984/11	3/4", SDR 13.5, Gray, with Pull Rope	3487751

Fiberguide® Optical Raceway Solutions

FiberGuide is a comprehensive raceway solution designed to protect and route fiber optic patch cords and multi-fiber cable assemblies to and from fiber splice enclosures, fiber distribution frames and fiber optic terminal devices.

» All components provide maximum fiber protection
» Minimum 2-inch bend radius throughout
» Wide variety of components for system flexibility
» Supports systems of 400 to 25,000 patch cords
» Available sizes: 2x2, 2x6, 4x4, 4x6, 4x12, 4x24
» Variety of exit styles and sizes
» Vertical and on-demand fiber management systems
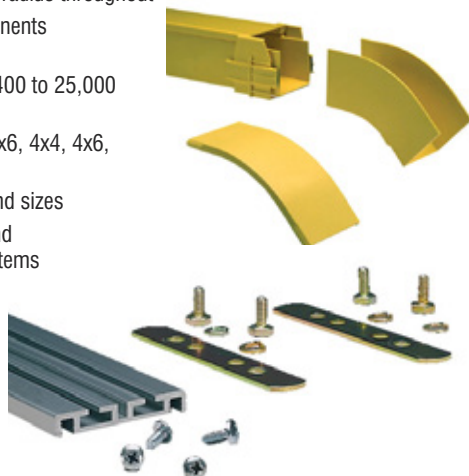
COMMSCOPE®

Mfr. Model #	Description	BSE Part #
FGS-HASK-C	Aluminum Track Support, 6'	2809905
FGS-HLDR-5/8	Ladder Rack Bracket Kit, 5/8 Rod	2809963
FGS-HMEC-A	End Cover Kit, 4x4	2809969
FGS-HMEC-C	End Cover Kit, 2x2, Yellow	2809971
FGS-HNTR-5/8	New Threaded Rod Bracket Kit, 5/8"	2809991
FGS-HWMB-C	Vertical Slotted Straight Universal Mounting Brackets, 2x2, Kit of 5 pairs	2810064
FGS-KTW1-JA	Vertical Duct Kit, 2x2, Yellow	3496075
FGS-MCDS-AB	Downspout Cover, 4x4, Yellow	2810147
FGS-MD4A-C	Elbow Kit, 45° Down, 2x2, Yellow	2810149
FGS-MD9A-C	Elbow Kit, 90° Down, 2x2, Yellow	3496076
FGS-MD9E-A	Elbow Kit, 90° Down, 4x4, Yellow	3496077
FGS-MEXP-A/B/F	Express Exit Kit, 2x2, Yellow	2810196
FGS-MFAW-A	Snap-Fit Junction, 4x4, Yellow	2810202
FGS-MH4A-C	Elbow Kit, 45° Horizontal 2x2, Yellow	3496082
FGS-MH4E-A	Elbow Kit, 45° Horizontal 4x4, Yellow	3496084
FGS-MHRT-A	Horizontal Tee, 4x4, Yellow	2810241
FGS-MIDY-50F	Flex Tube, 2" x 50'	3445968
FGS-MJWR-C	Junction Kit, 2x2	2810295
FGS-MSDS-C	Downspout Kit, 2x2, Yellow	2810312
FGS-MSHA-C	Horizontal Straight Section with Cover, 2x2, Yellow	2810313
FGS-MSHS-A	Horizontal Straight Section with Cover, 4x4, Yellow	2810321
FGS-MSSC-A	Snap-on Cover for Horizontal Straight Section, 4x4, Yellow	2810343
FGS-MU4A-C	Elbow Kit, 45° Up, 2x2	2810359
FGS-MU9A-C	Elbow Kit, 90° Up, 2x2	3450651
FGS-SD9E-A	Elbow Cover, 90° Down, 4x4, Yellow	3496086
FGS-SH4E-A	Elbow Cover, 45° Horizontal, 4x4, Yellow	3496087

PV-MOLD® Nonmetallic Pole Riser System — Heavy Duty Schedule 40

A nonmetallic pole riser system designed to protect communications power cable installed on poles.

» Designed in accordance with NEMA TC-19 specifications
» Ultraviolet, cold temperature and corrosive atmosphere resistant
» Schedule 40 wall meets Schedule 80 PVC conduit impact requirements per NEMA TC-19
» No grounding required
» Belled end fits over each added section or conduit
» Requires no maintenance
» PV-Mold acts as an insulator against electrical shock
» Interchangeable parts and accessories to match the needs of specific requirements
» Flanged overall length, including bell is 10 Feet
» Impact @ 0C 20 lb. Tup (ft.-lbs.): 100
» Impact @ 23C 20 lb. Tup (ft.-lbs.): 300

Prime Conduit, Inc.

Mfr. Model #	Size	Std. Qty.	Std. Qty. Wt.	Depth of Bell (min.)	BSE Part #
59010N	1-1/2"	165	950 lbs.	2"	175676

Schedule 40 PVC Rigid Nonmetallic Conduit, 10'

» Heavy Wall EPC
» Listed for underground applications encased in concrete or direct burial.
» Also for use in exposed or concealed applications aboveground.
» Sunlight resistant
» Rated for use with 90°C conductors
» Superior weathering characteristics
» Made in USA
» Integral Bell Dimensions meet the requirements of UL651
» ETL Listed to UL651 in compliance with the NEC

Prime Conduit, Inc.

Mfr. Model #	Trade Size	Std. Crate Qty.	Wt. Per 100'	O.D. (Avg.)	Wall (Min.)	BSE Part #
49005010	1/2"	6000'	17	0.840	0.109	2244068
49007010	3/4"	4400'	23	1.050	0.113	2243870
49008010	1"	3600'	34	1.315	0.133	2243871
49009010	1-1/4"	3300'	46	1.660	0.140	2243872
49010010	1-1/2"	2250'	55	1.900	0.145	2244067
49011010	2"	1400'	73	2.375	0.154	2243873
49012010	2-1/2"	930'	124	2.875	0.203	2243875
49015010	4"	570'	232	4.500	0.237	2243878
49017010	6"	260'	409	6.625	0.280	2243881

Grounding &
BONDING

Blackburn® Parallel Groove Connector Jumper Clamp

Easy installation with a secure fit.

» Made of copper alloy for high strength and durability
» Silicon-bronze hex-head washer bolt ensures a super-secure fit
» Parallel-groove design eliminated the need to remove the bolt for installation
» For use with aluminum, Amerductor or galvanized steel strand to copper or copper-bonded steel wires
» Wire range for plated groove: #6 AWG to 1/0 ACSR
» Wire range for copper groove: #8 AWG solid to 2/0 AWG stranded

ABB

Mfr. Model #	Description	BSE Part #
K1	Copper Type K Jumper Clamp	142585

Blackburn® HLC™ Hot-Line Clamp

With protected threads.

» Eyebolt coated with grease to ensure easy turning in all weather conditions
» Bronze construction for copper-to-copper applications
» 35kV rated
» Wire range for main and tap: #8 AWG solid to 2/0 AWG stranded
» UL listed, CSA certified

ABB

Mfr. Model #	Description	BSE Part #
HLC2108	Blackburn HLC Hot-Line Clamp for #8 Solid to 2/0 Stranded	441742

For all of your **SAFETY NEEDS,** contact your Border States Account Manager or call us at 1-800-676-5834

Blackburn® Type L Copper Mechanical Lug

Single-conductor, single-hole mount.

» Cold forged from pure electrolytic copper with 99% conductivity
» Screwdriver slot-head screw
» Conductor range: #14 AWG solid to #4 AWG stranded
» UL listed, CSA certified

ABB

Mfr. Model #	Description	BSE Part #
L70	Blackburn Type L Copper Mechanical Lug for #14 Solid to #4 Stranded	142283

Blackburn® Type H High-Strength Split-Bolt Connector

For copper-to-copper connections.

» Hex-design bolt and nut made of high-strength, corrosion-resistant bronze alloy
» Copper alloy pressure bar
» Tested and listed to UL486C, UL467 for grounding and for direct burial
» Conductor range for equal main and tap: #6 AWG solid to #10 AWG solid (will accommodate three wires of maximum size)
» Conductor range for minimum tap with one maximum main: #16 AWG stranded
» UL listed, CSA certified

ABB

Mfr. Model #	Description	BSE Part #
6H3	Blackburn Type H Split-Bolt Connector, #6 Solid to #10 Solid	142456

Scotchlok™ Shield Bond Connectors

» Designed to make a stable and low resistance electrical connection between communications cables of .80" diameter or less (100 pair, 24 ga. and under) and a conductor such as a strap, wire or braid

CORNING

Mfr. Model #	Description	BSE Part #
80610414866	4460-D Shield Bond Connector	167593
80610844443	4460-D/FO Shield Bond Connector	167692
80611316417	4460-DS Shield Connector With Pair Saver	3387239

CONSTRUCTION

Type GKA Mechanical Connectors for Copper

Mechanical connector for grounding and bonding termination applications. One-piece body construction provides mechanical integrity in an underground environment. Supplied with stainless steel headless screw.

» Rated for Direct Burial in earth or concrete
» UL467 Listed for US and Canadian markets
» Cable Range: 14 AWG–4 AWG

Mfr. Model #	Length	Width	Height	J Dia	Hole Size	Overall Length	BSE Part #
GKA4C	.46"	.54"	.71"	5/16"–24" (slot)	.28"	1.13"	424200

Type KS SERVIT® Split Bolt

Compact, high strength, high copper alloy SERVIT® split bolt has free-running threads and easy to grip wrench flats. Highly resistant to season cracking and corrosion, the SERVIT® connectors provide maximum pressure and assure a secure connection on all combinations of run and tap conductors.

» Rated for Direct Burial in earth or concrete
» UL467 Listed

Mfr. Model #	Cross Flats	Length	Width	Copper Conductor Range	Recommended Tightening Torque (in-lb)	BSE Part #
KS17	.63"	1.14"	.45"	8 STR–6 SOL	165	121901

#6 AWG Insulated and Bare Flexible Harnesses

» For bonding and grounding in pedestal new construction and retrofitting
» Standard lengths all RUS Listed
» Ring terminals at both ends

Mfr. Model #	Length	BSE Part #
EM8100-4.10	#6 AWG Insulated Flexible Harness, 4"	1979988

Many configurations and lengths available — contact your BSE representative for details.

Anchor Rod Bonding Clamps

For Expanding, Crossplate, and Rock Anchor Rods.

» Bonding clamps maintain a dependable mechanical and electrical pressure contact between guy strand and anchor rod when the guy is part of the grounding system
» Cast aluminum body
» Designed to fit Hubbell Power Systems anchor system
» RUS listed

Mfr. Model #	Anchor Rod Style	Anchor Rod Diameter	Material	BSE Part #
G5060	Thimbleye®	1/2", 5/8", & 3/4"	Aluminum	100203
G5061	Twineye®	5/8" & 3/4"	Aluminum	100205
G5063	Tripleye®	3/4" & 1"	Aluminum	100206

Messenger Ground Clamp

» Bolt can be removed so that the clamp can be dropped over the messenger
» Hot-dip galvanized per ASTM A-153

Mfr. Model #	Steel Size	Length	Bolt Size	Weight Ea	BSE Part #
7956	3/16" x 1-3/4"	1-3/4"	1/2" x 1-3/4"	0.61 lbs.	574423

Grounding Clamp

Grounds copper wire or cable to pipe or rod.

HUBBELL

Mfr. Model #	Type	Rod Diameter	Weight Ea.	Material	BSE Part #
GC5G5	Normal Duty	5/8"	.11 lbs.	Bronze	120795

Vise Type Grounding Clamp

General use vise type bronze copper to copper

» For copper connections-Splice, Loop deadend or service entrance tap or grounding connections
» One piece design for easier, faster installation
» Bolt head design for use with standard ratchet wrench
» Vise design achieves high connector pressure with low wrench force

HUBBELL

Mfr. Model #	Conductor Max x2	Conductor Min x2	Dia. Range (2 Cond. Combo)	Weight Ea	Bolt Head (Hex)	BSE Part #
GC5006SH	#6 SOL	#10 SOL	.162"–.101"	.09 lbs.	3/8"	152798
GC5020S	2/0 SOL	#3 SOL	.438"–.229"	.28 lbs.	9/19"	152994

Ground Block

Provides ground path between drop and ground wire.

» Stainless steel construction
» New Ground clip mechanism provides for fast and easy termination of up to #10 ground wire

MacLean
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-GB-10	Ground Block	3521342

Grounding Connectors

Used to provide a solderless connection between ground wires.

» Vise-type connectors made of corrosion resistant, high strength bronze
» Fast easy connection

MacLean
NETWORK SOLUTIONS

Mfr. Model #	Description	Conductor Range	BSE Part #
SI-2140	Grounding Connector	Min. 2–#2 SOL, Max. 2–2/0 STR	3521352
SI-2170	Grounding Connector	Min. #6, Max. #8	1078503

Ground Rod Clamps

Used to provide a solderless connection between #6 ground wire and a ground rod.

» Clamps are constructed of cast bronze
» Available in vibration proof, anti-loosening versions
» UL & CUL listed

MacLean
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-0038C	Ground Rod Clamp, Economy, 5/8"	3521353
SI-2142	Ground Rod Clamp, Heavy Duty	3440404

Universal Grounding Straps

Positive Grounding connection to water pipes, electrical conduits and ground rods.

» Features new captive nut, which prevents loss of nut during installation
» Features patented curved nut, which gives a more reliable, secure connection to pipe
» Set screw stud assembly is compatible with a standard terminal wrench
» Set-screw stud assembly is compatible with a standard terminal wrench and allows ground wire changes without loosening clamp
» Available in 6,9, or 12 inch lengths with copper or galvanized straps

MacLean
NETWORK SOLUTIONS

Mfr. Model #	Size	BSE Part #
SI-0954-12	12" Strap	3521343
SI-0954-6	6" Strap	3521344
SI-0954-9	9" Strap	3521345
SI-0958-12	12" Strap	3521346
SI-0958-6	6" Strap	3521347
SI-0958-9	9" Strap	3521348

CONSTRUCTION

Inner System Bonding Terminal

Provides convenient, quick method to innerconnect ground wires from multiple communications systems to a single main ground.

- » Meets requirements of 2008 NEC® Article 250.94
- » Allows for up to five connections of conductor sizes #14 AWG Solid–#4 AWG Solid
- » Allows for connection to main conductor size of #6 AWG Solid #2 AWG Stranded
- » Captive swivel cover swings out of the way for easy installation
- » Includes mounting hardware
- » Base and cover constructed of impact resistant, UV stabilized polymer

MacLean™
NETWORK SOLUTIONS
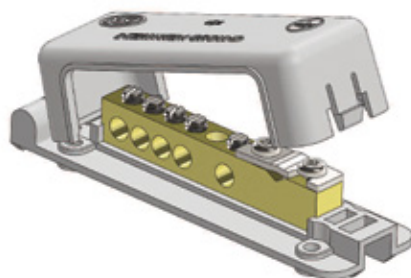
Mfr. Model #	Description	BSE Part #
SI-IBT	Inner System Bonding Terminal	3521354

Ground Tag

Used to identify grounding connections.

- » Made of aluminum, green paint
- » CATV Ground

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-TAG-100	Ground Tag	3521351

Water Pipe Clamp

Ideal in bonding copper ground wire to galvanized or copper pipe and conduit.

- » Bronze or galvanized
- » Accepts #14 AWG to #6 AWG copper wire

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-5948	Water Pipe Clamp — Bronze	3521349
SI-5948G	Water Pipe Clamp — Galvanized	3521350

Meter Box Clamps

Engineered to provide a positive ground connection to customer meter boxes without the need for a ground rod, ground rod clamp, or long ground wire runs.

- » Patented screw design (cone & tip arrangement for intimate ground to base metal
- » No need to loosen clamp to attach or remove ground wires
- » No preparation of meter box surface required
- » Patented
- » UL & CUL listed

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	BSE Part #
SI-2165	Meter Box Clamp — Side Bar	3521339
SI-2167	Meter Box Clamp — Lip Style	3521340
SI-2167SLM	Meter Box Clamp — Slim Style	3521341

Split Bolt

High Strength corrosion resistant copper allow connectors for use in bonding applications.

- » Designed to provide high clamping force
- » Split bolt will accept on any combination of two conductors shown in the chart below
- » UL and CUL listed

MacLean™
NETWORK SOLUTIONS

Mfr. Model #	Description	Min. Pair	Max. Pair	BSE Part #
SI-2004	Split Bolt	#8 SOL	#4 SOL	3535157

Copper-Bonded Ground Rod, Pointed

» 99.9% pure electrolytic copper coating
» Molecular bond to nickel-sealed high strength steel core
» Rods have a high carbon steel core and tip that provide superior strength when driving
» Copper coating will not crack when bent or tear when driven
» Minimum copper coating of 10 mils on rods listed to UL® 467

» nVent ERICO name, length, diameter and part number is roll-stamped within 12" (304,8 mm) of chamfered end
» UL logo and control number where applicable stamped on each rod for easy inspection after installation

nVent ERICO

Mfr. Model #	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Length	Plating Thickness	Unit Weight	Complies With	Certifications	BSE Part #
611300	1/2"	0.505"	10.0'	10 mil	6.900 lb	ANSI®/NEMA® GR1	CSA, cULus	167915
611350	1/2"	0.505"	5.0'	10 mil	3.500 lb	—	—	2454697
611380	1/2"	0.505"	8.0'	10 mil	5.500 lb	ANSI®/NEMA® GR1	UL	167950
615803	5/8"	0.561"	10.0'	13 mil	8.400 lb	IEC® EN 62561-2, ANSI®/NEMA® GR1	cULus	167973
615880	5/8"	0.560"	8.0'	10 mil	6.800 lb	IEC® EN 62561-2, ANSI®/NEMA® GR1	UL	167916
615883	5/8"	0.561"	8.0'	13 mil	6.800 lb	IEC® EN 62561-2, ANSI®/NEMA® GR1	UL	167955

Hammerlock Ground Clamp

Connect and protect.

» Irreversible connection with excellent mechanical strength
» Fast and simple installation requires only a hammer
» No special training required
» Low resistance connection

» Provides a visual indication of completed connection
» Allows for "T" or pass-through connections
» Copper bonded
» cULus certification

nVent ERICO

Mfr. Model #	Ground Rod Diameter, Nominal	Ground Rod Diameter, Actual Ø	Conductor Size	Number of Conductors	BSE Part #
EHL12FC1K	1/2"	0.50"	#6 Solid – #4 Solid, 16 mm² Stranded	1	1533063
EHL58C1K	5/8"	0.56"	#6 Solid – #4 Solid, 16 mm² Stranded	1	1533011

HAND HOLES

Tier 15 Underground Enclosure

Tier rated underground enclosures for driveway/parking lot/off-roadway applications.

» Rugged construction
» Stackable
» Lightweight
» More usable volume
» Easy to install

harles

Mfr. Model #	Description	BSE Part #
C173024AGGTHXFO	Tier 15 Underground Enclosure	3399827

Below Grade Enclosures

HDPE Enclosures for light duty applications.

» Most popular sizes
» Overlapping lid
» Black base with green lid
» Competitively priced

harles

Mfr. Model #	Appx. Dimensions	Cover Weight	Box Weight	Assembly Weight	BSE Part #
P100010ABGTHXFO	10"W x 00"L x 10"D	1 lb.	3 lbs.	4 lbs.	3399998
P141912ABGMHXFO	14"W x 19"L x 12"D	2 lbs.	6 lbs.	8 lbs.	3399989

CONSTRUCTION

SOLUTIONS

Polymer Concrete Boxes and Covers

Quazite enclosures offer not only improved manageability and cost-efficiency over other enclosures, but peace of mind as well.

- » Meets or exceeds ANSI / SCTE 77 Tier Ratings
- » High strength and durability
- » Cost effective
- » Nonconductive and nonflammable
- » Stable under freeze / thaw conditions

- » Impact resistant
- » All hardware is hot dip galvanized or stainless steel
- » Custom logos and colors available
- » Polymer materials do not rust or corrode

HUBBELL

Mfr. Model #	Dimensions	Tier	Design/Test Load#	Weight	Pallet Qty.	BSE Part #
Boxes						
PG2436BA24	24" x 36" x 24"	Tier 22	22,500/33,750	185	3	103186
PG3048BA36	30" x 48" x 36"	Tier 22	22,500/33,750	370	2	103160
PG4848BA36	48" x 48" x 36"	Tier 22	22,500/33,750	629	2	996613
Covers						
PG2436C55521	2-Piece Polymer Concrete Cover 24" x 36" x 3" With Throat Opening for Charles Ind. #8 Pedestal With Fiber Optics logo	Pedestrian Rated Only	N/A	141	10	3384635
PG2436HA0012	Polymer Concrete Cover 24" x 36" x 3" With Communications Logo	Tier 15	15,000/22,500	112	10	103248
PG2436HA0021	Polymer Concrete Cover 24" x 36" x 3" With Fiber Optics logo	Tier 15	15,000/22,500	112	10	228409
PG3048HA0012	Polymer Concrete Cover 30" x 48" x 3" With Communications Logo	Tier 15	15,000/22,500	200	10	959014
PG3048HA0021	Polymer Concrete Cover 30" x 48" x 3" With Fiber Optics logo	Tier 15	15,000/22,500	200	10	1241568
PG4848HA0012	Polymer Concrete Cover 48" x 48" x 3" With Communications Logo	Tier 15	15,000/22,500	352	10	1052631
PG4848HA0021	Polymer Concrete Cover 48" x 48" x 3" With Fiber Optics Logo	Tier 15	15,000/22,500	352	10	2864439

PEDESTALS

Fiber Distribution Pedestals

Provides secure yet accessible enclosure for FTTX drops.

- » Multiple sizes
- » Multiple configurations
- » Use with terminals, bulkheads or splice trays
- » Bell jar effect keeps connections dry
- » Robust material

Charles

Mfr. Model #	Description	BSE Part #
105SS07-4007000	Louvered Vertical Pedestal (LVP)	3399864
CFDP208-EL08D	CFDP208-EL08 with Extra Velcro Straps	3396887
CFDP208-EPS	8" Pedestal with Fiber Splicing Organizer, One Interior Dome, Direct Bury Base	2477200
CFDP208-EVPS	CFDP208-EPS with Vault Mount Base	3396793
CFDP210-EPS	10" Pedestal with Fiber Splicing Organizer, One Interior Dome, Direct Bury Base	2700219
Accessories		
UMS36-STD	Stakes for Pedestals	3396784

Vertiv Outside Plant Pedestals

Vertiv pedestals are designed to Telcordia GR-13 specifications and are a perfect fit for your fiber optic applications regardless of the environmental conditions.

» BBE BD Series UPCBDs — Round-cornered, square-design, mill-galvanized steel enclosures suitable for copper and fiber distribution. UPCBD3, 4 and 5 include dielectric shield, cable ties and shield isolation bonding/grounding bracket. Fiber distribution kit (holds up to 5 splice trays, slack storage and drops) available for BD4 or 5

» BBE PRO Series pedestals — Ideal for applications where non-metallic construction, flood protection or 360° access is desired. Split-base design. Includes multiple slide and secure mounting plate assemblies with self-latching dome covers. Offers more mounting space and slack storage than similar-sized round pedestals

» BBE OPFO Series pedestal enclosures — Designed to protect fiber optic splices and equipment. Large enclosures accommodate most third-party splice closures. Cable management posts for maximum storage of cable. Ground bar (OPFOP) and mounting hardware included

» FDH Series compact pedestal — Features a metallic integrated fiber distribution hub. Provides connections between fiber cables and passive optical splitters in an outside plant environment. Ideal for PON FTTx architecture. Includes 100 ft. dielectric loose tube, SC/APC. Splitters sold separately

VERTIV

Mfr. Model #	Description	BSE Part #
Vertiv BBE BD Series Pedestals		
F604840	UPCBD2, 4" Gray-Green, Metallic Pedestal	167637
F604860	UPCBD3, 6" Gray-Green, Metallic Pedestal	1241526
F604880	UPCBD4, 8" Gray-Green, Metallic Pedestal	1241527
F604900	UPCBD5, 10" Gray-Green, Metallic Pedestal	1241528
Vertiv BBE PRO MI Series Pedestals		
F1007240	PRO10FSNG, PRO10 10" Pedestal with Fiber Optic Mounting Plate, Short Base	2978654
F1007238	PRO8FSNG, PRO8 8" Pedestal with Fiber Optic Mounting Plate, Short Base	2978655
Vertiv BBE OPFO Series Splice Closures		
F112503	OPFOBD7, 24" x 11" Fiber Splice Closure Cabinet, Pad mount	1721297
F1007747	OPFOP1420, Fiber Splice Pedestal, Non-Metallic, 14" x 20" Pedestal	3546179
Vertiv BBE FDH Series Pedestals		
F1010509	NSFDH1096AXX100D, PRO10, 96 Port FDH, Fiber Distribution Hub, Integrated Compact Pedestal	3546178
Vertiv BBE Series Fiber Optic Kits		
F1010627	NSFBDSCSCX, BD Fiber Distribution Kit Without Splice Tray, Metal, Closed Architecture	3445819
Splitter Modules		
F1008495	NSSPLT132AD, 1 x 32 Splitter Module, SC/APC for PRO10 FDH	3229400
F1009027	NSSPLT116AE, 1 x 16 Splitter Module, SC/APC for PRO10 FDH	3546180
Splice Tray		
F1010586	NSST2448E, Universal Splice Tray	3546181
Vertiv Outdoor Enclosures Accessories, Ground Bracket Kits, Posts and Stakes		
F602190	Mobile Home Post, 36" Fixed Position	2419121
F602780	Metal Pole-Mounting Hardware for All Closures, RUS Accepted	981043
F604080	MS1342 — Single Mount, 42" Green Mounting Stake for Pedestals and Enclosures, RUS Accepted	167559
F605112	Ground Bracket Kit; UPCBD3, 4, and 5 Closures, Rus Accepted	1241531
F605114	Stud-Mount Extension Bracket, Install Below Isolation Bracket	1721298
F605115	Channel-Mount Extension Bracket, Install Above Isolation Bracket	3283907

CONSTRUCTION

Premise Cabling &
NETWORKING

Scotchlok™ Butt Connector UR2

» These solvent-resistant connectors accept two or three solid copper conductors that can be of different wire gauges, for butt splicing

» UR2 connectors are filled with a sealant to provide moisture resistance

CORNING

Mfr. Model #	Description	Maximum Insulation O.D.	PIC-Unfilled and PIC-Filled	Box Qty.	BSE Part #
80611327596	Gel-Filled Polypropylene Cat. 5	0.082" (2.08 mm)	26–19 AWG (0.4–0.9 mm)	100	167497

Coax F and BNC Compression Connectors

Robust brass design provides a permanent connection to coaxial cable using industry standard compression tools.

» Clear InSite® 360° window for confident cable insertions on all BNC connectors

» Nickel-plated, brass-construction for superior corrosion resistance

» Moisture-inhibiting design for BNC's

» RTQ™ XR™ Fits 60% regular, tri-shield and quad shield cables (92-650)

» Designed for use in satellite and cable TV installations (92-650)

» Z6F Fast + Simple compression, no braid folding required (92-641)

» Simplifies RG-6 Quad cable preparation — easier to attach connector to cable

» All IDEAL compression connectors work with the 30-793 compression tool

» Cable Prep Length: 1/4" x 1/4"

» Impedance: 75 Ohm

Mfr. Model #	Description	Cable Type	Cable Diameter Range	Center Conductor Range	Indoor/Outdoor	Pack Qty	BSE Part #
89-047	InSITE™ RG-59 BNC Compression Connector, 15/Card	RG-59	.230"–.250"	18–23 AWG Sol.	Indoor	15	2671850
89-5047	InSITE™ RG-59 BNC Compression Connector, 35/Cjar	RG-59	.230"–.250"	18–23 AWG Sol.	Indoor	35	2671866
92-641	Z6F Fast+Simple Compression F Conn RG6/6Q F 50/Jar	RG-6/6Q/6PL/6QPL	.226"–.310"	18–22 AWG	Indoor/Outdoor	50	3539332
92-650	RTQ™ XR™ RG-6 F Compression Connector, 50/Jar	RG-6Q, RG-6	.250"–.315"	18–22 AWG	Indoor	50	2671876

PROTECT
your assets

Border States can also be your provider of a complete line of Security and Surveillance products.

Feed-Thru and Standard RJ-45 Modular Plugs

Field terminate CAT5e or CAT6 RJ-45 plugs to twisted pair cable.

- » 50 micron plated gold contacts, 8-position, 8-contact
- » All plugs are UL Listed
- » All IDEAL RJ-45 modular plugs are compatible with the 30-495 FT-45 Crimp Tool
- » Feed-Thru plugs simplify installation allowing verification of conductor order before crimping
- » Feed-Thru plug design allow a flush cut removing the excess conductor

- » Compatible with PoE and PoE++ applications
- » Standard plugs are compatible with quality industry standard crimping tools
- » Number of Contacts: 8
- » Sol or Str conductor type
- » Impedance: 100 Ohm

Mfr. Model #	Description	Connector Type	Center Conductor Range	Compatible Tool	Pack Qty	BSE Part #
85-366	CAT6 3 Piece RJ-45 8P8C Modular Plugs, 25/Card	Standard, 3 piece	23-24 AWG, 0.041" max	30-495, 30-496, 30-696	25	2671831
85-371	CAT5e Feed-Thru Modular Plugs, 50/Card	Feed-Thru, 1 piece	23-24 AWG, 0.041" max	30-495	50	3337724
85-376	CAT6 Feed-Thru Modular Plugs, 50/Card	Feed-Thru, 1 piece	23-24 AWG, 0.041" max	30-495	50	3337727
85-396	CAT5e RJ-45 8P8C Modular Plugs, 50/Card	Standard, 1 piece	24 AWG, 0.041" max	30-495, 30-496, 30-696	50	2671833

Intellinet Ethernet Switches

Mfr. Model #	Description	BSE Part #
530378	5-Port Gigabit Ethernet Switch Desktop Size, Metal Housing, IEEE 802.3az (Energy Efficient Ethernet)	3160222
561426	24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 4 Gigabit Combo Base-T/SFP Ports, IEEE 802.3at/af Power over Ethernet (PoE+/PoE) Compliant, 370 W, Endspan, 19" Rackmount	3545772

Value Series™ Cat 5e & Cat 6 Booted Patch Cord

- » Factory terminated for superior performance
- » Meets or exceeds industry standards for NEXT and return loss
- » Made with 24 AWG, stranded copper (7 x 32), four twisted pairs
- » Blue

legrand®

Mfr. Model #	Type	Length	BSE Part #
570-110-001	Cat 5e	1'	3327659
570-110-003	Cat 5e	3'	3327648
570-110-005	Cat 5e	5'	3327592
570-110-007	Cat 5e	7'	3327643
570-110-010	Cat 5e	10'	3327649
570-110-014	Cat 5e	14'	3327642
570-110-025	Cat 5e	25'	3327652
576-110-001	Cat 6	1'	3327456
576-110-003	Cat 6	3'	3327445
576-110-005	Cat 6	5'	3327400
576-110-007	Cat 6	7'	3327446
576-110-010	Cat 6	10'	3327447
576-110-014	Cat 6	14'	3352239
576-110-025	Cat 6	25'	3335703

CONSTRUCTION

Surface-Mount Telephone Boxes

» Screw terminal connections provide flexible, secure, and reliable performance
» Finish and color matches Leviton wallplates for a consistent look throughout the home or business
» Available for single 6P4C telephone line connection, 6P6C 3-line connection, 8P8C 4-line connection and 8P8C with shorting bars (for security applications)
» Mounting hardware and double-sided tape included

LEVITON
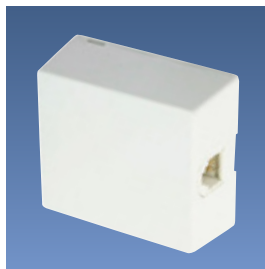
Mfr. Model #	Description	Color	BSE Part #
4625A-24W	6P4C Screw Terminal	White	123343
4625A-24I	6P4C Screw Terminal	Ivory	123339

NetKey® Faceplates

» Keystone port style
» NEMA standard single gang
» Can identify with adhesive labels (sold separately)

PANDUIT®

Mfr. Model #	Description	BSE Part #
NK1FNIW	NK 1-Port, Single Gang, Flush Mount Faceplate (off-white)	2332243
NK1FNWH	NK 1-Port, Single Gang, Flush Mount Faceplate (white)	2332244
NK2FNIW	NK 2-Port, Single Gang, Flush Mount Faceplate (off-white)	2332258
NK2FNWH	NK 2-Port, Single Gang, Flush Mount Faceplate (white)	2332259
NK3FNIW	NK 3-Port, Single Gang, Flush Mount Faceplate (off-white)	2332287
NK3FNWH	NK 3-Port, Single Gang, Flush Mount Faceplate (white)	2332288
NK4FNIW	NK 4-Port, Single Gang, Flush Mount Faceplate (off-white)	2332298
NK4FNWH	NK 4-Port, Single Gang, Flush Mount Faceplate (white)	2332299

NetKey® Surface Mount Boxes

» NetKey® surface mount box accepts two keystone modules
» Includes built-in removable blank.
» Supplied with mounting screws, adhesive backing and cable tie

PANDUIT®

Mfr. Model #	Description	BSE Part #
NK2BXIW-A	NK 2-Port Surface Mount Box, (off white)	2332253
NK2BXWH-A	NK 2-Port Surface Mount Box, (white)	2304799

NetKey® Connectivity and Outlets

Panduit quality and performance in an industry standard keystone form factor.

» 100% Performance tested jack modules
» T568 A/B compatible jack modules
» Jack modules are rated for 2,500 mating cycles
» Jack modules use punchdown style termination, and include a strain relief retention cap
» Standard keystone footprint

PANDUIT®

Mfr. Model #	Description	BSE Part #
NKP5E88MIW	Category 5e, 8-Position, 8-Wire, Keystone Punchdown Jack Module (off-white)	2332523
NKP5E88MWH	Category 5e, 8-Position, 8-Wire, Keystone Punchdown Jack Module (white)	2332524
NK688MIW	Category 6, 8-Position, Keystone Punchdown Jack Module (off-white)	2332369
NK688MWH	Category 6, 8-Position, Keystone Punchdown Jack Module (white)	2304188
NKBMIW-X	NetKey Blank Module, (off-white)	1893344
NKBMWH-X	NetKey Blank Module, (white)	2304182

Pro Series High Speed HDMI® Cables with Ethernet

The Pro Series High Speed HDMI® Cables provide integrators with future-proof solutions ideal for today's full 4K, HDR installations.

» Full 18Gbps bandwidth
» UltraHD- 4K@60Hz- 4:4:4 chroma sampling
» Enables transmission of High Dynamic Range (HDR) video
» EMI tested to ensure cables minimize interference with wireless signals
» 100% Aluminum Shielded Connector — 360 degrees of coverage
» Up to 32 audio channels with ARC for a multi-dimensional immersive audio experience
» HD Audio Formats such as DTS-HD Master Audio- Dolby TrueHD- Dolby Atmos- and more
» Support for the wide angle theatrical 21:9 video aspect ratio
» Future-proofed and perfect for today's 4K/UltraHD environment
» UL Listed- CL3 Rated

VANCO ADVANCING...CONNECTIVITY

Mfr. Model #	Color Depth	Length	O.D.	BSE Part #
PROHD06	8 Bit	6 ft	7.3 mm	3453413
PROHD10	8 Bit	10 ft	7.3 mm	3499680

Route
MARKERS

3M™ Extended Range Ball Markers

Unlike surface features, maps and other methods of recording position, the 3M™ Extended Range Ball Markers are a constant point of reference you can depend on.

» 4 inch self-leveling sphere
» Specially designed for locating flush mounted facilities covered by backfill
» Affixes to underside of non metallic lids or covers over flush mounted facilities
» Self align marker offers positive identification of facilities
» Self-leveling design for precise and horizontal positioning
» Works without any external power source
» Operate in all soil types; under asphalt; cement; and wet or dry soil
» Provide easy positive identification with each utility having its own frequency;
» Color-coded APWA standards
» 3M™ iD Markers have additional option to include customer specific information (i.e. facility data, material type/size, application type and placement date)

3M

Mfr. Model #	Utility Type	Detection/ Read Range	RF Technology	Color	Frequency (kHz)	BSE Part #
1401-XR	Telephone	6	Passive RF	Orange	101.4	167571
1402-XR	Power	6	Passive RF	Red	169.8	115946
1403-XR	Water	6	Passive RF	Blue	145.7	1592343
1404-XR	Wastewater	6	Passive RF	Green	121.6	2086459
1405-XR	Gas	6	Passive RF	Yellow	83.0	1595337
1408-XR	General Purpose	6	Passive RF	Purple	66.35	2390689
1421-XR/ID	Telephone	5	Passive RFiD	Orange	101.4	2472178
1422-XR/ID	Power	5	Passive RFiD	Red	169.8	1993939
1423-XR/ID	Water	5	Passive RFiD	Blue	145.7	1681611
1424-XR/ID	Wastewater	5	Passive RFiD	Green	121.6	2472175
1425-XR/ID	Gas	5	Passive RFiD	Yellow	83.0	1993943
1428-XR/ID	General Purpose	5	Passive RFiD	Purple	66.35	2322012

MEGASTRETCH™ Hi Stretch Non Detectable Tape

Stretches up to 10 times its length before breaking; its blended polymers create a unique, strong yet stretchable warning tape for the telecommunications industry.

» Environmentally safe   » Permanent messaging
» Lead free   » Wear resistant

Milwaukee®

Mfr. Model #	Size	BSE Part #
25-071	3" x 6000'	1319025

Terra Tape® Extra Stretch™ II

Terra Tape® Extra Stretch™ II is a 100% virgin pigmented polyolefin film with a printed message on one side.

» Ink used to print the material is permanent and cannot be removed by normal handling or upon long term underground burial
» Material and ink are chemically inert and will not degrade when exposed to acids, alkalies and other destructive substances commonly found in soil
» Material is available in orange. Other colors may be available upon request

REEF INDUSTRIES, INC.

Mfr. Model #	Description	Imprint	BSE Part #
42-0159	Orange 3" × 6000'	"CAUTION FIBER OPTIC CABLE BURIED BELOW"	2671368

TriView Marking Post

Alerts 3rd party excavators and facility owners that there is buried cable in the area.

» Triangular shaped marker with Warning message decals on each side is visible from any angle
» Warning message decals are multi-colored
» Made of engineered UV resistant thermoplastic that resists fading
» Will rebound if hit by cars, trucks, etc
» 10 year warranty against significant fading
» Other lengths available in 6" increments up to 90" long

Rhino *MARKING & PROTECTION SYSTEMS*

Mfr. Model #	Description	BSE Part #
TVF48-OB	48" Long, Orange, Black Cap	1557357

Cable Clipper® Marker

» 6.125" x 1.625" PVC caution fiber optic cable marker
» Black-on-orange label with black clip

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
CC-SHORT	0.5" Diameter Cable	500	25 Per Pack	3539048
CC-SHORT-1	1.0" Diameter Cable	500	25 Per Pack	3539049

CONSTRUCTION

SnapAround® Cable Marker

» Caution fiber optic cable marker
» Orange with black print

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
SA1	4"x 4" (.375"-1.0" diameter cable)	250 Markers	50 Per Pack	3240230
SA3	7"x 4" (.375"-1.0" diameter cable)	250 Markers	50 Per Pack	3539047

6FT DomedPost®

» White post with orange molded dome, black molded-in graphics
» Includes anchor

WILLIAM FRICK & COMPANY
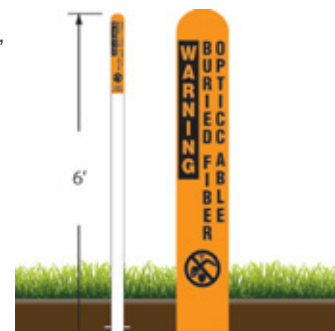
Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
DOMEPOST6-FOC	6' Dome Marker Post	100	Pallet	3539054

Curb Marker

» 4" diameter domed disk for marking curbs
» Outdoor durable
» Custom printed black on orange
» Use adhesive PS-800.

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
CM-FOC4	Caution Fiber Optic Cable Curb Marker	500	50 Per Pack	3539052

6FT FlexPost®

» Orange post with custom printed black-on-orange decal applied
» Includes anchoring system

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
FLEXPOST66-FOC	6' Flexible Line Marker Post	50	Pallet	3539055

Adhesive

» Used for mounting polyethylene signs, tags or curb markers
» Ideal for concrete and cement surfaces

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
PS-800	11 oz. Tube Industrial Bonding Adhesive	1	1 Tube	3539053

Soil Marker

» Warning buried fiber optic cable marker for "Flush" above ground markings
» 7" disk, printed black on orange, with 13" 2-barb stake
» Graphics are molded into disk

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
SOIL-BFOC-DND	Warning Buried Fiber Optic Cable Marker	100	25 Per Pack	3539058

Our Top
FIBER VENDORS

A few of our go-to fiber optic cable vendors for FTTH include:

AFL
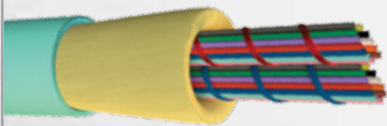
Prysmian Group

SUPERIOR ESSEX

DISTRIBUTION   **ADSS**   **OPGW**   **LOOSE TUBE**

Wire & CABLE

Solid Soft Drawn Bare Copper Wire

» Highest conductivity per unit area of all common commercial metals
» Excellent corrosion resistance
» Flexible; easily worked and formed into place
» Packaged on non-returnable spools for easy transportation to job sites
» Good fatigue-resistance; not subject to breaks due to nicks or cuts when terminating
» Totally recyclable with high scrap value

Mfr. Model #	Conductor Size	Conductor Material	Wire Length	BSE Part #
BARESD6SOLCU315R	6 AWG	Copper	315' Reel	2243917
BARESD6SOLCU2500R	6 AWG	Copper	2500' Reel	2243927

THHN and TFN Solid Copper Conductor — 600V

» Solid, uncoated copper conductors per ASTM-B3
» Color-coded PVC insulation, heat- and moisture-resistant and flame-retardant
» Tough polyamide jacket with nylon outer cover
» Type THHN building wire is commonly used for general-purpose applications as defined by the National Electrical Code (NEC)
» Type TFN is primarily used as fixture wire as defined by the NEC at temperatures not to exceed 90°C in dry locations

Mfr. Model #	Conductor Size	Jacket Color	Wire Length	BSE Part #
THHN14BLKSOLCU2500R	14 AWG	Black	2500' Reel	2243917
TFN16GRNSOLCU2500R	16 AWG	Green	2500' Reel	2243927

1/4" EHS 7-Wire A475 Guy Wire Class A and 3/8" HS 7-Wire A363 Static Strand Class A

» 1/4" EHS is commonly used as messenger wire, reinforcing fiber optic cables for overhead data lines, and is also applicable as guy wire
» 3/8" HS is crafted with reinforced steel cores for superior quality and durability as a static strand or overhead ground wire (OHGW)
» Both are hot-dip galvanized with Class A coating weight

@ BEKAERT
better together

Mfr. Model #	Description	BSE Part #
14EHSGUYCLSA7 STR5000FTRLA475	1/4" EHS 7-Wire A475 Guy Wire Class A, 5,000' Reel	3012517
3/8 HS ASTM A363 5000FT COIL"	3/8" HS 7-Wire A363 Static Strand Class A, 5,000' Reel	3385798

Category 5e Cable

Enhanced Transmission Throughput.

» 24 AWG solid bare annealed copper conductors
» Polyolefin Insulation
» Rip Cord applied longitudinally under jacket
» Flame-retardant PVC jacket
» TRU-Mark® print legend contains footage markings from 1000' to 0'
» IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
» 52/155 Mp/s ATM

» ANSI X3.263: 100 Mb/s
» 4/16 Mp/s token ring
» ANSI/TIA/EIA 568 B.2 (Category 5e)
» ICEA S-90-661 (Category 5e)
» UL & c(UL) Type CMR (UL 1666) for Non-Plenum
» UL 444
» RoHS Compliant Directive 2011/65/EU
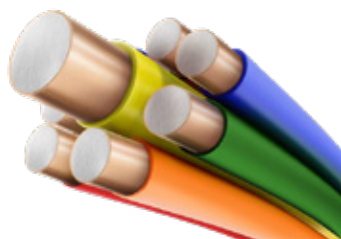» Third-party verified for guaranteed performance

CAROL BRAND

Mfr. Model #	Description	BSE Part #
CR5.30.02	PULL-PAC® II, 1000', CMR (NON-PLENUM), White	2695021
CR5.30.10	PULL-PAC® II, 1000', CMR (NON-PLENUM), Gray	2695022

Category 6 Cable

Standard-Compliant Solution.

» 23 AWG solid bare annealed copper conductors
» Tape separator
» Polyolefin Insulation
» Rip Cord applied longitudinally under jacket
» Flame-retardant PVC jacket
» TRU-Mark® print legend contains footage markings from 1000' to 0'
» IEEE 802.3: 1000 BASE-T (Gigabit Ethernet), 100 BASE-TX, 10 BASE-T
» ANSI/TIA/EIA 854: 1000 BASE-TX
» 155 Mp/s, 1.2 Gb/s ATM
» ANSI X3.263: 100 Mb/s

» IEEE 802.3af DTE Power (PoE)
» Digital video
» ANSI/TIA/EIA 568 B.2-1 (Category 6)
» ANSI/TIA/EIA 862 (Building Automation)
» ISO/IEC 11801 Ed. 2.0 (Class E)
» ICEA S-102-700 (Category 6)
» UL & c(UL) Type CMR (UL 1666) for Non-Plenum
» UL 444
» RoHS Compliant Directive 2011/65/EU
» Third-party verified for guaranteed performance

CAROL BRAND

Mfr. Model #	Description	BSE Part #
CR6.30.02	PULL-PAC® II, 1000', CMR (NON-PLENUM), White	3350977
CR6.30.07	PULL-PAC® II, 1000', CMR (NON-PLENUM), Blue	3144440

CONSTRUCTION

High Strength — 1430 CCS Tracer Wire

» 30 mil HDPE insulation
» 282-lb break load
» 2 times the breaking strength of solid copper
» 11% lighter than solid copper means reduced freight expenses
» Copper-clad steel (CCS) wire combines the strength of fully annealed high-carbon steel with the conductivity and corrosion resistance of solid copper
» Bonded metals mean no separating, no corrosion, and no theft appeal
» More stable pricing than solid copper
» Rated for direct bury
» Color-coded to meet American Public Works (APWA) standards for utility identification

Copperhead
INDUSTRIES

Mfr. Model #	Description	BSE Part #
1430NHS2500	#14 AWG (0.0641" diameter) Fully Annealed, High Carbon 1055 Grade Steel, High Strength Solid Copper-Clad Steel Conductor (HS-CCS) Rated at 30 Volts, Insulated With a 30 mil, High-Density, High Molecular Weight Polyethylene (HDPE) Insulation Rated for Direct Burial Use at 30 Volts	3250263

PVC Telecommunications Ground Wire

Manufactured from annealed, solid copper conductors, providing high conductivity and flexibility.

» PVC insulation is available in a wide range of colors: black, beige, olive, gray, and green
» Standard shipments in 200 ft., 300 ft., and 500 ft. lengths; other lengths available upon request

NEHRING
ELECTRICAL WORKS COMPANY

Mfr. Model #	Size (AWG)	Length	Color	BSE Part #
108260005	10 AWG Solid	500'	Green	2667799
112250008	6 AWG Solid	100'	Black	2747079
GROUNDWIRE6AWG	6 AWG Solid	500'	Black	169200
GROUNDWIRE6AWG SOL500FTGREENNEHR	6 AWG Solid	500'	Green	2666778

EnduraGain OSP Broadband BBDN

BBDN is an Outside Plant (OSP) Broadband category cable.

» Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
» 8 mil aluminum tape shield
» Dry block between shield and inner jacket
» Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
» Rugged shield provides protection against EMI/RFI
» Prevents water ingress between shield and inner cable preventing damage to equipment
» 4 pair, solid annealed copper conductor with polyolefin insulation
» 1,000' reel

SUPERIOR ESSEX

Mfr. Model #	Category	Type	BSE Part #
04-001-54	CAT 5e	Shielded FTP	1727064
04-001-A4	CAT 6A	Shielded FTP	3535164
04-001-64	CAT 6	Shielded FTP	3535163

EnduraGain OSP Broadband BBDG

BBDG is an Outside Plant (OSP) Broadband category cable.

» Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
» Corrugated, copper-clad steel armor
» Dry block between armor and inner jacket
» Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
» Rugged shield provides protection against EMI/RFI and provides rodent resistance
» Prevents water ingress between armor and inner cable preventing damage to equipment
» 4 pair, solid annealed copper conductor with polyolefin insulation
» 1,000' Reel

SUPERIOR ESSEX

Mfr. Model #	Category	Type	BSE Part #
04-001-55	CAT 5e	Armored	2673148
04-001-65	CAT 6	Armored	2926581
04-001-A5	CAT 6A	Armored	3535165

CONSTRUCTION

EnduraGain OSP Broadband BBD

BBD is an Outside Plant (OSP) unshielded Broadband category cable.

- » Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- » Unshielded
- » PFM gel-filled core construction
- » Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- » Small robust, design
- » Prevents intrusion of moisture and easily wipes clean during installation
- » 4 pair, solid annealed copper conductor with polyolefin insulation
- » 1,000' reel

SUPERIOR ESSEX

Mfr. Model #	Category	Type	BSE Part #
04-001-58	CAT 5e	Unshielded UTP	2308226
04-001-68	CAT 6	Unshielded UTP	2692591

EnduraGain OSP Broadband Indoor/Outdoor Halogen-Free CM/CMX

BBD Indoor/Outdoor Halogen-Free is a CM/CMX rated category cable combining Outside Plant (OSP) Broadband features with an indoor application.

- » Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e
- » Dry block between armor and inner jacket
- » Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
- » Rugged shield provides protection against EMI/RFI and provides rodent resistance
- » Prevents water ingress between armor and inner cable preventing damage to equipment
- » 4 pair, solid annealed copper conductor with polyolefin insulation
- » 1,000' reel

SUPERIOR ESSEX

Mfr. Model #	Category	Type	Shield	BSE Part #
04-001-A3	CAT 6A	Armored Indoor/Outdoor	Copper-Clad Steel	3535166
04-001-63	CAT 6	Armored Indoor/Outdoor	Copper-Clad Steel	3380443
04-001-A2	CAT 6A	Shielded Indoor/Outdoor FTP	Coated Aluminum Tape	3535167
04-001-62	CAT 6	Shielded Indoor/Outdoor FTP	Coated Aluminum Tape	3535168

Category 5e CMR/CMX Outdoor Sunlight Resistant

Category 5e CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications.

- » Combines indoor/outdoor applications into one product
- » Exceeds UL 444
- » Meets ANSI/TIA-568-C.2 specifications
- » Provides cost-effective solution
- » 720 hour sunlight resistant specification
- » Resists damage conditions that might weaken standard packages
- » 4 pair, solid annealed copper conductor with polyolefin insulation
- » 1,000' Reel

SUPERIOR ESSEX

Mfr. Model #	Type	Jacket Color	BSE Part #
51-240-E1	Indoor/Outdoor U/UTP	Black	3327540

Category 5e CMR/CMX Outdoor

Category 5e CMR/CMX Outdoor cable is specifically designed for outdoor applications.

- » Combines indoor/outdoor rating
- » Tough, weather resistant PVC jacket
- » Meets ANSI/TIA-568-C.2 specifications
- » Increases life of cable by providing low temperature hanging and UV resistance ; cable jacket resists cracking over time
- » Reduces inventory by eliminating multiple cable types
- » CAT 5e compliance
- » 4 pair, solid annealed copper conductor with polyolefin insulation
- » 1,000' Reel

SUPERIOR ESSEX

Mfr. Model #	Type	Jacket Color	BSE Part #
51-240-11	Indoor/Outdoor U/UTP	Beige	169647
51-240-31	Indoor/Outdoor U/UTP	Gray	169565

CONSTRUCTION

get more info at **borderstates.com** | toll-free: **800.676.5834**

CLEANING

One-Click® Cleaners

Easy one push action quickly and effectively clean the end-face of connectors on jumpers or through adapters.

» Precise mechanical action delivers consistent cleaning results
» Automatically advance ensures each clean is performed with fresh cleaning tape
» Low cost per clean

AFL

Mfr. Model #	Description	BSE Part #
8500-05-0001MZ	One-Click Cleaner SC, ST, FC (500+ cleans)	2406256
8500-05-0002MZ	One-Click Cleaner MU/LC (500+ cleans)	2406257
8500-05-0004MZ	One-Click Cleaner ODC, Outdoor Connector (500+ cleans)	3172899
8500-05-0005MZ	One-Click Cleaner Mini-100 SC, ST, FC (100+ cleans)	3297835
8500-05-0006MZ	One-Click Mini-100 MU/LC (100+ cleans)	3500334
8500-05-0007MZ	One-Click Ultra Cleaner 2.5 (enlarged cleaning) SC, ST, FC (500+ cleans)	3442045
8500-05-0008MZ	One-Click Cleaner D-LC, Duplex LC (2 x 500+ cleans)	3409566
8500-05-0009MZ	One-Click Cleaner Mini-500 SC, ST, FC (500+ cleans)	3494724
8500-05-0010MZ	One-Click Cleaner Mini-500 MU/LC (500+ cleans)	3504311
8500-05-0013MZ	One-Click Cleaner MPO-16 (500+ cleans)	3504312
8500-05-0030MZ	One-Click Cleaner MPO (500+ cleans)	3315201
8500-05-0031MZ	One-Click Cleaner MT-RJ (500+ cleans)	3504319

For all of your
DATA CENTER NEEDS,
contact your Border States
Account Manager or call us
at 1-800-676-5834

CLETOP (ACT) Adapter Cleaning Sticks

Easy and efficient means of cleaning fiber optic connectors in adapters and cleaning alignment sleeves.

» Delivers a consistently high level of cleaning performance
» Easy to clean ferrule end-faces inside the plug-in fiber optic connectors and various adapters
» Compact and disposable

AFL

Mfr. Model #	Description	BSE Part #
8500-10-0022MZ	1.25 mm Single-Ended Sticks (box of 200 — 40 bags of 5 sticks per bag). For LC and MU.	3504321
8500-10-0023MZ	2.0 mm Single-Ended Sticks (box of 200 — 40 bags of 5 sticks per bag). For Military and High Definition Video (LEMO).	3504322
8500-10-0024MZ	2.5 mm Single-Ended Sticks (box of 200 — 40 bags of 5 sticks per bag). For FC, SC, ST, and D4.	3504323
8500-10-0030MZ	2.0/2.5 mm double-ended sticks (box of 100 — 100 bags of 1 stick per bag). For Military and High Definition Video (LEMO).	3504324

CCT Connector Cleaning Tips

Uses a molded, sintered polymer that is both porous and pliable, conforming to virtually any fiber end-face polish geometry.

» Unlimited shelf life
» Dual-head design permits wet and dry cleaning in one swab
» Traps and holds liquid and particle contaminants in an absorbent open cell matrix ranging from 10-25 microns
» No fibers, binders, adhesives or outgassing that may contaminate the connector

AFL

Mfr. Model #	Description	BSE Part #
CCTP-25-0900MZ	For exposed 2.5 mm, 2.0 mm, 1.6 mm, 1.25 mm ferrules and termini (FC, SC, ST, LC, MU, etc., jumpers, male MIL T 29504/14 for MIL C 28876 and MIL T 29504/04 for MIL C38999)	3505194
CCTS-12-0900MZ	For 1.25 mm ferrule in adapters or sockets (LC, MU, etc., in adapters)	3505196
CCTS-16-0900MZ	For MT-RJ connectors and 2.0 mm and 1.6 mm termini in sockets (female MIL T 29504/15 for MIL C 28876 and MIL T 29504/05 for MIL C 38999, MT-RJ both jumpers and adapters)	3505198
CCTS-25-0900MZ	For 2.5 mm ferrule in adapters or sockets (SC, FC, ST, etc. in adapters)	3505200
CCTX-MT-0900MZ	For Biconic and MT ferrule connectors both jumpers and in adapters (Biconic, MTP, MPO, MPX, etc.)	3505204

FIBER OPTIC PRODUCTS

Fiber Optic
SOLUTIONS

Cletop Optical Fiber Connector Cleaners

Rugged handheld tools for cleaning fiber optic connector end faces.

» Simple push-button shutter application
» Compact lightweight design
» Easily replaceable cost-effective tape cartridges
» Over 400 wipes per tape

Cletop Options:

» Cletop Series: Original
» Cletop-S Series: Second generation cleaner offering "Drop-in" replacement tape cartridge and ergonomic design
» Type A & -SA: Designed for single 2.5mm ferrules (SC, FC, ST, & D4)
» Type B & -SB: Cleans SC, SC2, FC, ST®, DIN, D4, MU, LC, MT, MPO/MTP® without pins

AFL

Mfr. Model #	Description	BSE Part #
Cletop Original Series		
8500-10-0011MZ	Cletop Type A with White Tape	3172898
8500-10-0027MZ	Cletop Type A with Blue Tape	2400952
8500-10-0014MZ	Cletop Type B with White Tape	2400956
8500-10-0028MZ	Cletop Type B with Blue Tape	2400954
8500-10-0033MZ	Cletop for MPO/MTP with pins (White Tape)	2400958
8500-10-0015MZ	Replacement Tape, Type A and B - White	2400961
8500-10-0012MZ	Replacement Tape, Type A and B - Blue	2400959
8500-10-0032MZ	Cletop for MT-RJ with pins (White Tape)	2400957
Cletop-S Series		
8500-10-0020MZ	Cletop-SA with Blue Tape	2400949
8500-10-0016MZ	Cletop-SB with White Tape	2400950
8500-10-0029MZ	Cletop-SB with Blue Tape	1980460
8500-10-0017MZ	Replacement Tape, Type S - White	2400951
8500-10-0021MZ	Replacement Tape, Type S - Blue	1980461

CleanWipes

For high-speed cleaning of optical jumpers and patch cords.

» High-modulus cleaning material won't rip, tear, shred, or lint
» Super-soft material won't scratch end-faces
» Static-dissipative material eliminate static

AFL

Mfr. Model #	Description	BSE Part #
9000-03-0031MZ	600 Optical Quality Wipes (1 box)	3535146

FCC2 Enhanced Formula Connector Cleaner and Preparation Fluid

A non-flammable, environmentally safe, residue free solvent engineered to easily remove contaminants from fiber optic end-faces and bare fiber.

» Not Hazardous/Not Regulated for all modes of transport, including air cargo
» Unique dispenser for use with AFL Connector Cleaning Tips and FiberWipes
» Safe on all surfaces including soft plastics
» Up To 400+ cleanings per can

AFL

Mfr. Model #	Description	BSE Part #
FCC2-00-0902	Enhanced Formula, (3 oz/85 g) Fiber Connector Cleaner and Preparation Fluid (1 can)	3245657
FCC2-00-0903	Enhanced Formula, (3 oz/85 g) Fiber Connector Cleaner and Preparation Fluid (case of 12 cans)	3275609
FCC2-10-0902	Enhanced Formula, (10 oz/283 g) Fiber Connector Cleaner and Preparation Fluid (1 can)	3505763
FCC2-10-0903	Enhanced Formula, (10 oz/283 g) Fiber Connector Cleaner and Preparation Fluid (case of 12 cans)	3505764

FCP Field Portable Connector Cleaning Kits

» Complete kits for cleaning SC, ST, FC, LC, MU, and MPO connectors
» Includes products for cleaning connectors on jumpers and through bulkhead adapters
» Includes wet and dry cleaning products to effectively clean a variety of contaminants
» Carrying case

AFL

Mfr. Model #	Description	BSE Part #
FCP2-00-0901	FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC and LC One-Clicks, Debris Destroyer, MPO One-Click, Duffle Bag	3505784
FCP2-10-0900	FCC2 cleaning fluid, FiberWipes, Cletop-SB, SC and LC One-Clicks, Debris Destroyer, Duffle Bag	3535147

FCC3 Debris Destroyer® Fiber Cleaning Pen

Cleans fiber optic connectors and bare fiber. It can be used for controlled application of cleaning fluid to One-Click Cleaners, cassette cleaners, sticks and wipes.

» Removes dirt, dust, oils, and other debris
» Eliminates electrostatic charge
» Safe with plastic components

AFL

Mfr. Model #	Description	BSE Part #
FCC3-00-PEN1	Debris Destroyer — Fiber Optic Cleaning Pen (1 pen)	3472017

FiberWipes

Lift and trap common contaminants found in fiber optic installations. FiberWipes provide superior cleaning results from material that is stronger and more absorbent, yet softer than traditional cellulose wipes.

» Lint free
» Fully optical grade
» Robust and tear-resistant

AFL

Mfr. Model #	Description	BSE Part #
9000-03-0025MZ	FiberWipes — 90 Optical Quality Wipes Per Tub, (1 tub)	2650998
9000-03-0026MZ	FiberWipes — 90 Optical Quality Wipes Per Tub (1 case of 24 tubs)	3504410
9000-03-0027MZ	FiberAide 1 — 600 Lint Free Wipes For Single Use (12 bags of 50 wipes)	3401959

Kimtech Science™ Kimwipes™ Delicate Task Wipes

Delicate wipers for light-duty and precision cleaning.

» Easily wipe up liquids, dust and tiny particles and are designed for delicate tasks
» Feature one-at-a-time dispensing for minimized waste
» Anti-static dispensing system reduces lint and electrostatic discharge (for sensitive environments like labs)
» Each wiper is 4.4" x 8.4" and useful for polishing glassware, cleaning laboratory instruments and other delicate surfaces
» 280 wipers per box, 30 boxes per case, 8,400 wipers per case total

Kimberly-Clark PROFESSIONAL

Mfr. Model #	Ply	Unit Size	BSE Part #
34120	1	8.4" x 4.4"	3547777

AquaKleen™

Water-based fiber optic cleaner.

» Nonflammable: Safe to use
» Nonhazardous for Shipment: No restrictions via land or air shipping
» Maintains Equipment: Prolongs the life of costly fiber-splicing units by cleaning heat strippers V-grooves, and camera lenses
» No Toxic Solvent Fumes: No irritating solvent vapor exposure
» Made with Pure Deionized Water: No residue after evaporation to affect light transmission

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
AQ-2LP	AquaKleen™ Type AQ™ 2-Oz Finger Sprayer	12	3002915
AQ-KIT2	AquaKleen™ Kit with Finger Sprayer	1	3002917

Microfiber Towels

These lint-free towels can be used to clean ferrules, bulkheads, and fiber endfaces.

» Versatile: Use DT towels to apply AquaKleen
» Non-Linting: DT towels are non-linting
» Multi-use: Clean ferrules, bulkheads, and fiber endfaces
» Highly absorbent

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
DT-D175	175-Towel FiberKleen™ Dispenser w/Cleaning Pad	12	3002916
DT-D50	50-Count FiberKleen™ Dry Towel Canister	8	2729046

Type FO™ Alcohol Fiber Optic Cleaner

» Excellent Solvency: Removes oil, dust, and other contaminants
» 99.8% Anhydrous Isopropyl water-free for fiber optic cleaning
» Large Cleaning Wipe: 5" x 8" wipe means longer working time and more cleaning per wipe
» No Residue: No interference with light transmission
» Fast Evaporating: Minimal delay before continuing with job

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
FO-1	Type FO™ Isopropyl Alcohol Prep Wipe	50	1408970
FO-128	1-Gal Type FO™ Isopropyl Alcohol Fiber Cleaner	4	2321864
FO-16	16-Oz Type FO™ Isopropyl Alcohol Fiber Cleaner	12	1470655
FO-2LP	2-Oz Refillable Spray Type FO™ Isopropyl Alcohol	12	3002896
FO-32	32-Oz Type FO™ Isopropyl Alcohol Fiber Cleaner	12	1470656
FO-8LF	8-Oz Refillable Bottle Type FO™ Isopropyl Alcohol	12	3002897

FIBER OPTIC PRODUCTS

QuicKleen™

Fiber endface cleaner.

» Cleans Fiber End Faces: Minimizes signal loss and maximizes connectivity

» No Flash Point: Non-hazardous for air shipment

» Cleans Multi-Mode and single mode: Suitable for all glass fiber, including 1625 nm.

» No Residue: No streaking ensures complete light transmission

» Evaporates Quickly: Ready to reinsert or connect immediately after cleaning

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
QC-2LP	2-Oz QuicKleen™ Type QC Finger Sprayer	12	3002902
QC-KIT2	QuicKleen™ Type QC Kit w/2-oz Finger Sprayer	8	3002903

SqueekyKleen™

Fiber and copper gel filled cable cleaner.

» Effective Cleaner: Quickly cleans cable filling gel and flooding compounds

» Cleans IBP Flooding Compound; Good for cleaning coax cable

» Fast Gel Cleaner: Requires only two wipes and the fiber squeaks and fans

» No Residue: Nothing left to require a secondary alcohol wipe

» Industry Tested: Approved by users and manufacturers

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
TC-640	5-Gal SqueekyKleen™ Telcom Cleaner	1	3002846
TC-D300	300-Count SqueekyKleen™ Wipe Canister	6	3164632
TC-1	SqueekyKleen™ Telcom Cleaner-Saturated Wipe	144	2702979
TC-128	Gal SqueekyKleen™ Telcom Cleaner	4	2979284
TC-16LF	16-Oz SqueekyKleen™ Telcom Cleaner w/Flip Top	12	3002871
TC-35LF	Qt SqueekyKleen™ Telcom Cleaner w/Flip Top	12	2979286
TC-35LR	Qt SqueekyKleen™ Telcom Cleaner w/Sprayer	12	2979287

Connectors &
CONNECTOR KITS

FASTConnect® Field-Installable Connectors

» Pre-polished, field-installable connectors completely eliminate the need for hand polishing in the field

» Proven mechanical splice technology ensuring precision fiber alignment, a factory pre-cleaved fiber stub and a proprietary index-matching gel combine to offer an immediate low loss termination to either single-mode or multimode optical fibers

» No epoxy, no polish connector

» Fiber can be reinserted up to three times

» VFI accessory to confirm proper installation
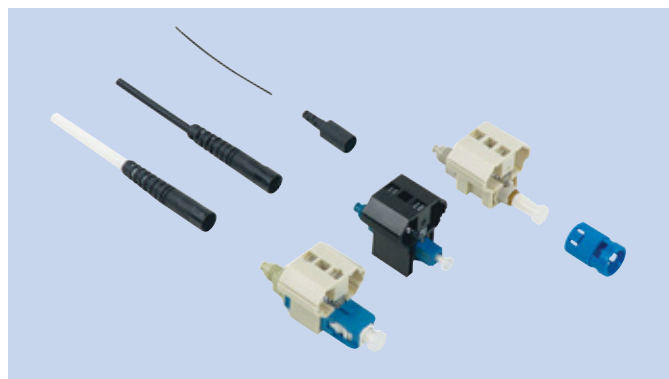
AFL

Mfr. Model #	Description	Insertion Loss (Average)	Insertion Loss (Maximum)	Return Loss at Room Temp. (Average)	Return Loss at Room Temp. (Maximum)	Operating Temperature	BSE Part #
FAST-LC-SM-100	FAST-LC, ZR, SM, Pre-Polished,900UM, Pack of 100	0.2dB	0.5dB	-50dB	-45dB	-40˚ to +75˚ C	3492670
FAST-LC-SM-6	FAST-LC, ZR, SM, Pre-Polished, 900UM, Pack of 6	0.2dB	0.5dB	-50dB	-45dB	-40˚ to +75˚ C	3274968
FAST-SC-SM-100	FAST-SC, ZR, SM, Pre-Polished, 900UM, Pack of 100	0.2dB	0.5dB	-50dB	-45dB	-40˚ to +75˚ C	2868506
FAST-SC-SM-6	FAST-SC, ZR, SM, Pre-Polished, 900UM, Pack of 6	0.2dB	0.5dB	-50dB	-45dB	-40˚ to +75˚ C	2789615
FAST-SC-SMAU-100	FAST-SC, ZR, SM, Angle-Flat Polished, 900UM, Pack of 100	0.3dB	0.6dB	-55dB	-50dB	-40˚ to +75˚ C	3505676
FAST-SC-SMAU-6	FAST-SC, ZR, SM, Angle-Flat Polished, 900UM, Pack of 6	0.3dB	0.6dB	-55dB	-50dB	-40˚ to +75˚ C	3015615

FUSEConnect® Splice-on Connectors

The factory pre-polished ferrule eliminates the need for polishing, adhesives and crimping in the field, utilizes a fusion splicer to terminate the connector in the field, addressing the loss concerns present in analog optical networks.

» Field installable
» No adhesives, crimping or polishing
» True APC performance
» Heat sleeve style splice protector design
» Compatible with Fujikura fusion splicers and most fiber holder-based fusion splicing platforms
» FUSEConnect MPO utilizes RT-02 ribbonizing tool for glueless ribbon termination

AFL

Mfr. Model #	Description	Insertion Loss (Average)	Insertion Loss (Maximum)	Return Loss at Room Temp. (Maximum)	Operating Temperature	BSE Part #
FUSE-LC2SMA-6	FUSEConnect, LC, APC, SM, 2.0mm, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40˚ to +75˚ C	3506598
FUSE-LC2SMU-6	FUSEConnect, LC, UPC, SM, 2.0mm, Pack of 6, Blue Housing	0.15dB	0.25dB	-55dB	-40˚ to +75˚ C	3291236
FUSE-LC9SMA-6	FUSEConnect, LC, APC, SM, 900um, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40˚ to +75˚ C	3438412
FUSE-LC9SMU-6	FUSEConnect, LC, UPC, SM, 900um, Pack of 6, Blue Housing	0.15dB	0.25dB	-55dB	-40˚ to +75˚ C	3305785
FUSE-SC3SMA-6	FUSEConnect, SC, APC, SM, 3.0mm, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40˚ to +75˚ C	3404146
FUSE-SC3SMU-6	FUSEConnect,SC,UPC,SM,3.0mm,Pack of 6,BLUE HOUSING	0.15dB	0.25dB	-55dB	-40˚ to +75˚ C	3506617
FUSE-SC9SMA-6	FUSEConnect, SC, APC, SM, 900um, Pack of 6, Green Housing	0.15dB	0.25dB	-65dB	-40˚ to +75˚ C	3321754
FUSE-SC9SMU-6	FUSEConnect, SC, UPC, SM, 900um, Pack of 6, Blue Housing	0.15dB	0.25dB	-55dB	-40˚ to +75˚ C	3204290

Field Installable Tool Kits and Accessories for FASTConnect® and FUSEConnect®

Tool kits and accessories are available for the termination of various FASTConnect and FUSEConnect field installable connectors.

» Compact design, flexible yet rugged carrying case

AFL

Mfr. Model #	Description	Compatibility	BSE Part #
FUSE-AC-KT	FUSEConnect Accessory Kit	Compatible with FUSEConnect Single-Fiber Connectors	3506577
FUSE-TL-KT	FUSEConnect Tool Kit	Compatible with FUSEConnect Single-Fiber Connectors	3506630
FUSE-ST-TL	FUSEConnect Stripping Tool (3.0mm, 2.8mm, 2.0mm, and 1.6mm)	Compatible with FUSEConnect Single-Fiber and Multi-Fiber Connectors	3506629
FUSEMPO-TL-KT	FUSEConnect MPO Tool Kit	Compatible with FUSEConnect Multi-Fiber Connectors	3506608

FIBER OPTIC PRODUCTS

CONSUMABLES

Splice Protection Sleeves

» Heat shrinkable protection sleeves for a variety of fiber counts
» Various length and size options for different application needs
» Stainless steel strength member for single fiber sleeves and Quartz for ribbon sleeves

AFL
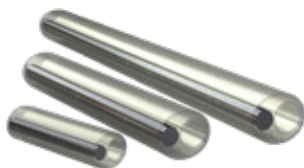
Mfr. Model #	Description	BSE Part #
S003027	FP-5 — 12 Fiber Ribbon Splice Protection Sleeve	3446102
S015915	FP-60 — 60mm Single Fiber Protection Sleeve	3486700
S015916	FP-40 — 40mm Single Fiber Protection Sleeve	3507713

SMOUV Splice Protectors

» Provide mechanical and environmental protection
» Optimal design for simple and correct fiber balance
» Hot melt adhesive specially developed for optimal flow
» Transparent heat shrink tube for simple installation verification
» Short installation cycle
» Compatible with most common ovens

COMMSCOPE®

Mfr. Model #	Description	Length	BSE Part #
369305-000	SMOUV-1120-01, Splice Sleeve	61 mm (2.402 in)	Call
757849-000	SMOUV-1120-R2/12-02, Splice Sleeve	42 mm (1.654 in)	2716367

Fiber Optic Splice Sleeve 2170

» Transparent plastic tube and stainless steel rod designed to help prevent stress and protect fusion fiber optic splices in field and factory operations

CORNING

Mfr. Model #	Size	Package	BSE Part #
80610281380	3.0 x 60 mm	50 Each	167349

CT50 Fiber Cleaver

Speed, simplicity, and hassle-free maintenance in a fiber cleaver.

» Bluetooth communication with splicer for blade-life tracking
» Automated scrap collector
» Field replaceable blade and cleaver pads
» Motorized blade rotations and thumb-wheel height changes
» Shock resistant up to 30" and 6 drop orientations

AFL

Mfr. Model #	Description	BSE Part #
S017030	CT50 Fiber Cleaver	3507747

Ribbonizing and Termination Tools

Quickly form temporary ribbons for mass fusion splicing.

» Traditional ribbonizing of 250μm fibers with adhesive using the FAT-04
» Glue-less ribbonizing with RT-02 for 200μm and 250μm fibers

AFL

Mfr. Model #	Description	BSE Part #
S017465	RT-02 Ribbonizing Tool	3535148
S010212	FAT-04 Fiber Arrangement Tool	3440805

FAT-04 Ribbonizing Tool Consumables

» 0.5L of Ribbonizing adhesive
» 4oz. of Ribbonizing adhesive
» Sponges for adhesive absorption for FAT-04
» Paste applicator block for FAT-04

AFL

Mfr. Model #	Description	BSE Part #
S008622	FAA-03 0.5L	3507567
S008720	FAA-03 4oz.	3440806
S009016	SP-1 Sponges	3453567
S010952	PAB-01 Applicator Block	3507575

Splicing Equipment Cleaning Supplies

» V-groove cleaning kit for any splicer, but necessary for fixed V-grooves such as mass fusion splicers
» V-groove cleaning brush
» V-groove cleaning kit refill

AFL

Mfr. Model #	Description	BSE Part #
S014397	V-groove Cleaning Kit	3408844
S016416	VCB-01 Brush	3507724

Fiber Optic Drop Cable Slitters

FOD-2000

Open cable jackets, mid-span or end run. Choose FOD-2000 for flat drop cable or FOR-3000 for round cable.

» Slits 0.250" flat drop cables as well as various other cables such as Super Essex Communications Series 6U, 6T tonable, W7, W7 tonable, 6U 24F, and 6T 24F tonable flat drop cables
» Slits flat cables 0.305" to 0.350" wide and 0.155" to 0.185" high, typically found in Corning SST-Drop flat cables with a jacket thickness of 0.03" to 0.04"
» Slits both sides of the jacket simultaneously, allowing easy access to fiber or strength members
» Can separate the jacket and strength members from the buffer tube leaving fiber undamaged
» Two reversible blades come preassembled and can be reversed when worn for double life

FOR3000

Opens open round fiber optic cable jackets from 9 mm to 19 mm in diameter. Slits cables with outer diameter from 9 mm to 19 mm.

» Provides easy fiber access for both mid span and end of cables
» Ability to slit and ring all in one tool
» Works on light armored cables also
» Blade is easily replaceable with replacement blade: FOR-3000RB

JONARD TOOLS®

Mfr. Model #	Description	BSE Part #	Repl Blade Mfr. Model #	Repl Blade BSE Part #
FOD-2000	Fiber Optic Drop Cable Slitter	3024246	FOD-RB25	2783865
FOR-3000	Fiber Optic Round Cable Slitter	3512781	FOR-3000RB	3512782

Fiber Drop Cable Stripper

Designed to strip FTTH drop cables sized 3.1 mm by 2.0 mm, this drop cable stripper strips the outer jacket of drop cables and cuts the strength members to expose the fiber inside.

» Works on cables with FRP or steel strength members
» Removes the outer jacket without damaging or nicking the fiber
» Non-slip ergonomic handle helps prevent hand grip fatigue
» Fiber support is scaled to help determine strip length

JONARD TOOLS®

Mfr. Model #	Description	BSE Part #
FDS-312	Fiber Drop Cable Stripper	3512778

Duct Cutters

Designed to create quick, clean, and straight cuts in fiber ducts made from PVC, CPVC, HDPE, and other plastic tubing. Both models feature triangular blade that delivers square and straight cuts by holding the tubing in place, and safety lock.

Microduct Cutter

» Cuts up to 28mm dia.
» Spring-loaded jaws make it quick and easy to use
» Carbon steel blade with black oxide finish is durable and easily replaceable
» Molded ribbed grips for comfort and secure holding

Large Fiber Duct Cutter

» Cuts up to 64mm
» Ratcheting design provides high amount of leverage to facilitate cutting with minimal effort
» Comfortable one-handed operation with included easy open release
» Die cast aluminum alloy body and stainless steel cutting blade provide long life and durability
» Blades can be sharpened to maintain cutting performance using our KSS-1 Knife Scissor Sharpener

JONARD TOOLS®

Mfr. Model #	Description	BSE Part #	Repl Blade Mfr. Model #	Repl Blade BSE Part #
MDC-28	Microduct Cutter	3512786	MDC-28RB	3512787
MDC-64	Large Fiber Duct Cutter	3437030	N/A	N/A

Mid-Span Slitters and Riser Slitters

» MS-26 Mid-Span Slitter provides easy access to optical fibers in outer jackets and loose buffer tubes; five precision grooves from 2.9 to 6.8 mm

» Mid-Span Slit & Ring Tools available in variety of sizes for slitting and ringing different types and sizes of cable

» RST-8514 shaves longitudinal access window in round FTTH riser cables 8 to 14 mm

JONARDTOOLS®

Mfr. Model #	Description	BSE Part #	Repl Blade Mfr. Model #	Repl Blade BSE Part #
MS-26	Mid Span Slitter (2.9 mm-6.8 mm)	3444387	MSB-2968	3512795
MS-306	Mid Span Slit & Ring Tool (1.2 mm-3.3 mm)	3512788	MS-306RB	3512789
MS-316	Mid Span Slit & Ring Tool (2.9 mm-6.8 mm)	3512790	MS-316RB	3512791
MS-326	Mid Span Slit & Ring Tool (5 mm-10 mm)	3444388	MSB-5010	3512796
MS-336	Mid Span Slit & Ring Tool (7.9 mm-11 mm)	3545868	MS-336RB	3546468
MS-426	Mid Span Slit & Ring Tool (5.8 mm-12 mm)	3512792	MS-426RB	3512793
MS-526	Mid Span Slit & Ring Tool (9.8 mm-18.2 mm)	3545869	MS-526RB	3546469
MS-6	Mid Span Slitter (1.2 mm-3.3 mm)	3240190	MSB-1533	3512794
RST-8514	Riser Slitting Tool	3512799	N/A	N/A

Strippers and Tube Ringers

» JIC-125 strips 250μm buffer coating to expose the 125μm optical fiber in fiber optic cables without damaging the fiber

» JIC-375 Three Hole Fiber Optic Stripper strips the 1.6 mm-3.0 mm fiber cable jacket, 600-900 micron buffer coating, and 250 micron acrylate coating to expose the 125 micron glass fiber

» BTR-6 provides quick access to fibers inside buffer tubes up to 6 mm in diameter and works with wall thickness up to 1mm

JONARDTOOLS®

Mfr. Model #	Description	BSE Part #
JIC-125	Fiber Optic Stripper	3318415
JIC-375	Fiber Optic Stripper, Three Hole	2403640
BTR-6	Buffer Tube Ringer	3512775

Fiber Connector Tool for LC, SC Connectors

» Designed for use on LC and SC simplex and duplex connectors, this tool is perfect for inserting and extracting fiber optic connectors in high density patch panels

» Bent nose jaws can be used to insert or remove simplex or duplex LC and SC connectors

» Works with LC and SC simplex and duplex connectors as well as with MU, MT-RJ, and other similar type connectors

» Spring-loaded design with dual component thermoplastic rubber TPR grips for maximum comfort and control

» Rubber protected jaws safely secure and grip connectors without damaging them

JONARDTOOLS®

Mfr. Model #	Description	Size	BSE Part #
FCT-100	Fiber Connector Tool for LC, SC Connectors	10.6" (269.2 mm)	3545825

Fluid Dispenser for Fiber Cleaning 220mL

» Holds up to 220 mL of isopropyl alcohol or other cleaning fluids

» Twist-lock pump can be locked/unlocked with a simple twist

» Spill-proof lid holds fluid securely, preventing waste from spills and leaks

» Easy-to-use pump delivers a controllable amount of fluid with each press

JONARDTOOLS®

Mfr. Model #	Description	BSE Part #
FD-220	Fluid Dispenser for Fiber Cleaning 220mL	3545828

Fiber Scraps Disposal Can

» Allows safe disposal of cleaved fiber ends

» Twist lock cover locks scraps in the disposal can for safe and easy disposal

» Disposal can has a 2 oz capacity with a paperboard body and plastic top and bottom

» Lightweight design to accommodate any tool kit or splice/connector station

JONARDTOOLS®

Mfr. Model #	Description	BSE Part #
FDC-66	Fiber Scraps Disposal Can	3545827

QuickSleever™

» Designed to make loading protection sleeves onto fiber quick and easy, the PSI-15 QuickSleever tool is ideal for aligning fiber to the holes of protection sleeves

» Conical fiber feed surface guides fiber directly to protection sleeve (patent pending)

» Facilitates fiber loading by providing a guide for the fiber to load right into the protection sleeve

» Holds up to 15 protection sleeves, each ranging from 1.57" to 2.36" (40 mm to 60 mm) long

» When one sleeve is loaded and removed, another automatically falls into place

JONARD TOOLS®

Mfr. Model #	Description	Size	BSE Part #
PSI-15	QuickSleever™	2.6"	3545824

Round Cable Strip and Ring Tool

Designed for fast and precise removal of cable jackets from round cables that are 3/16" to 1-1/8" (4.5 mm-29 mm) in diameter.

» Patented stripping mechanism provides a "spiral stripping mode" to strip and remove tough insulations

» Can cut through a variety of jacket materials such as PVC, rubber, PE, and many more

» Triple action design as it can make longitudinal cuts for end stripping, spiral cuts for end and mid span stripping, and circular cuts for jacket removal

» Spring-loaded blade can be rotated 90 degrees for versatile slitting and can be adjusted for multiple round cable sizes from 3/16" to 1-1/8" (4.5 mm-29 mm) in diameter

» Replacement blade is available (part #: CST-7915)

JONARD TOOLS®

Mfr. Model #	Description	BSE Part #	Repl Blade Mfr. Model #	Repl Blade BSE Part #
CST-1900	Round Cable Strip & Ring Tool	3284008	CST-7915	3405454

Did you know Border States also offers a large selection of **BATTERY OPERATED POWER TOOLS?**

Ratcheting Duct & Cable Slitter

Perfect tool for slitting and ringing cables or ducts greater than 25 mm in diameter. Unique blade penetrates duct walls up to 5 mm thick, allowing you to make mid-span window cuts in cables and ducts.

» Fixed jaws and ratcheting feature make it easy to grip and slit heavy-duty cable & cut into ducts at midspan

» Slits and rings cable made of PVC, PE, rubber, and other jacket materials

» Replaceable double-ended blade has an adjustable cutting depth of 0 to 5 mm (0" to 0.20")

» 10 mm, 20 mm, 30 mm ruler marked on tool for accurate and precise slitting lengths

» Perfect for mid-span or end cable slitting and ringing

JONARD TOOLS®

Mfr. Model #	Description	BSE Part #
RCS-30	Ratcheting Duct & Cable Slitter	3545870

Fiber Optic Tool Kits

Assorted handy kits for the tools you use most often.

JONARD TOOLS®

Mfr. Model #	Description	BSE Part #
TK-105	Fiber Optic Mid Span Slit & Ring Tool Kit	3512800
TK-121	Fiber Prep Kit+	3545866
TK-170	Fiber Prep Kit with Small & Large Mid Span Slitters	3512802
TK-325	Aramid Yarn Scissor & Pouch Kit	3512803

Fusion
EQUIPMENT

Fujikura Fusion Splicers

» Family of splicers managing cleaver maintenance and upkeep tasks

» Broad range of applications from long-haul network installation to access network repair, and from field fiber terminations to optical module assembly

» Ruggedized for shock, vibration, moisture, and dust resistance to handle strenuous field conditions

» Long battery, electrode, and blade lives for extended field use without downtime

Fujikura 41S

» Active Cladding alignment for operator ease-of-use

» Cleaver management and tracking with wireless communication

» Warm Splice Imaging for enhanced loss estimation accuracy

Fujikura 90R

» Replaceable V-grooves for application versatility and splicer up-time

» Increased splice speed with automated wind protector, tube heater, and splice start

» Universal operation for 200μm & 250μm Spider Web Ribbon

Fujikura 90S

» Highest level of automated features to include sheath clamps

» Loose and tight buffer fiber with same sheath clamp

» Broadest range of application capabilities of any field splicer type

AFL

Mfr. Model #	Description	BSE Part #
S017509	Fujikura 90R	3507788
S017091	Fujikura 41S with CT50	3507754
S017511	Fujikura 90R Kit with CT50 RS03	3507789
S017519	Fujikura 90S	3507792
S017521	Fujikura 90S Kit with CT50	3507793

Fusion Splicing Accessories

Common accessories to increase splicing capabilities.

AFL

Mfr. Model #	Description	BSE Part #
S017111	FH-70-250, 250μm Single Fiber Holder	3507768
S017113	FH-70-900, 900μm Single Fiber Holder	3507770
S017119	FH-70-12, 12 Fiber Ribbon Holder	3507776
S014536	ACC-14 AC, Power Cord for Use With ADC-20 Adapter for 90 Series	2971258
S017512	BTR-15, Battery Pack for 90 Series	3507790
S017513	ADC-20, AC Adapter for 90 Series	3507791

PON
COMPONENTS

Fiber Splitter Modules

Plug and play splitter modules used in enclosures and pedestals to split the optic signal in passive optical networks.

» Multiple configurations

» Works in a variety of Charles solutions

» Allows scale up builds

Charles

Mfr. Model #	Ports	Drop Leg Insertion Loss (dB max)	Pass-Thru Leg Insertion Loss (dB max)	BSE Part #
CFSM-MFT230700A	2 Tap	6.3	6.0	3399798
CFSM-MFT240600A	2 Tap	7.0	4.6	3399797
CFSM-MFT260400A	2 Tap	8.9	2.8	3399796
CFSM-MFT270300A	2 Tap	10.2	2.0	3399795
CFSM-MFT280200A	2 Tap	12.0	1.4	3399794
CFSM-MFT286140A	2 Tap	13.6	1.0	3399843
CFSM-MFT290100A	2 Tap	15.1	0.8	3396891
CFSM-MFT294060A	2 Tap	17.5	0.6	3396913
CFSM-MFT295050A	2 Tap	18.4	0.5	3396890
CFSM-MFT297030A	2 Tap	21.2	0.4	3399793
CFSM-MFT2XXXX0A	2 Tap	4.2	TERM.	3399844
CFSM-MFT430700A	4 Tap	9.7	6.0	3399804
CFSM-MFT450500A	4 Tap	11.3	3.6	3399803
CFSM-MFT460400A	4 Tap	12.3	2.8	3399802
CFSM-MFT470300A	4 Tap	13.6	2.0	3399801
CFSM-MFT480200A	4 Tap	15.4	1.4	3396892
CFSM-MFT488120A	4 Tap	17.3	1.0	3396914
CFSM-MFT490100A	4 Tap	18.7	0.8	3399800
CFSM-MFT495050A	4 Tap	21.3	0.6	3399799
CFSM-MFT4XXXX0A	4 Tap	7.4	TERM.	3399845
CFSM-MFT840600A	8 Tap	13.2	4.6	3399809
CFSM-MFT850500A	8 Tap	14.3	3.6	3399808
CFSM-MFT870300A	8 Tap	16.6	2.0	3399807
CFSM-MFT875250A	8 Tap	17.3	1.6	3399846
CFSM-MFT880200A	8 Tap	18.4	1.4	3399806
CFSM-MFT890100A	8 Tap	21.7	0.8	3399805
CFSM-MFT8XXXX0A	8 Tap	10.7	TERM.	3399847

Fiber Splitter Tray

Benefits of a splitter embedded in a splice tray.

» Multiple configurations
» Grow as you go

Charles

Mfr. Model #	Ports	Drop Leg Insertion Loss (dB max)	Pass-Thru Leg Insertion Loss (dB max)	BSE Part #
CFST-AFT2307000	2 Tap	6.3	6.0	3449627
CFST-AFT2406000	2 Tap	7.0	4.6	3449626
CFST-AFT2604000	2 Tap	8.9	2.8	3449624
CFST-AFT2703000	2 Tap	10.2	2.0	3449623
CFST-AFT2802000	2 Tap	12.0	1.4	3449622
CFST-AFT2861400	2 Tap	13.6	1.0	3449620
CFST-AFT2901000	2 Tap	15.1	0.8	3449619
CFST-AFT2940600	2 Tap	17.5	0.6	3449618
CFST-AFT2950500	2 Tap	18.4	0.5	3449617
CFST-AFT2970300	2 Tap	21.2	0.4	3449616
CFST-AFT2XXXX00	2 Tap	4.2	TERM.	3450968
CFST-AFT4307000	4 Tap	9.7	6.0	3449637
CFST-AFT4505000	4 Tap	11.3	3.6	3449636
CFST-AFT45550A	4 Tap	10.7	4.1	3450375
CFST-AFT4604000	4 Tap	12.3	2.8	3449635
CFST-AFT4703000	4 Tap	13.6	2.0	3449634
CFST-AFT4802000	4 Tap	15.4	1.4	3449633
CFST-AFT4881200	4 Tap	17.3	1.0	3449632
CFST-AFT4901000	4 Tap	18.7	0.8	3449631
CFST-AFT4950500	4 Tap	21.3	0.6	3449630
CFST-AFT4XXXX00	4 Tap	7.4	TERM.	3450969

Fiber Interface Terminal

Compact NEMA rated enclosure for extending PON networks — works as a lower count splitter hub.

» Configurable to customer requirements
» Scale up build by adding modules
» Plug and play sensibility

Charles
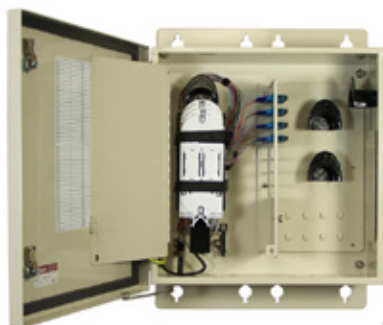
Mfr. Model #	Description	BSE Part #
CFIT-FC12A2PF01	CFIT-Flex Compact, 12 Ports, SC/APC, 2 Splice Trays, Single Medium 1.00" Conduit Fitting, 12 Grommets (5mm dia. cables), Swing-Out Bulkhead	3399860

WaveSmart® Premium Ruggedized Splitters

Addresses environmental and human handling issues that other standard splitters cannot combat — with improved fiber protection, management and maintenance in OSP FTTx deployments.

» Terminations are designed and tested to Telcordia GR-326
» 100% performance tested for insertion loss, return loss and final mechanical inspection
» Optical component configuration uses devices that are compliant to Telcordia GR 1221/1209
» Ruggedized jacket material of input and output legs provide superior flexibility in temperatures ranging from -55°C to 85°C (-67°F to 185°F)
» Splitters legs come preloaded in staging plate for easy access and turn-up
» Fiber separators every 17" (431.8mm) to easily recognize and prevent twisting of fiber legs
» Each leg is 51" (1295.4mm) long and able to reach any port
» Red boot on input leg
» Splitter package supports one 1 x 32, two 1 x 16 or four 1 x 8 configurations without penalty in real estate or port counts
» Red boot on input leg

CLEARFIELD

Mfr. Model #	Description	BSE Part #
Ruggedized Splitter Module with SC/APC Connectors, Front Pigtail Input(s) and Outputs, Bend-Insensitive Fiber, Ruggedized Jacket — 2.0mm O.D. Singlemode Fiber (G.657.A), 100mm L x 80mm W x 10 mm H		
KC1-CAA	With 1 x 32 Splitter, <16.8 dB Insertion Loss	3452460
KC4-CAA	With 1 x 16 Splitter, <13.8 dB Insertion Loss	3538880
KC5-CAA	With 1 x 8 Splitter, <10.8 dB Insertion Loss	3538881
KC8-CAA	With 1 x 4 Splitter, <7.5 dB Insertion Loss	3538882

For OTDRs and Power Meters,
see **PAGE 64**

SOLUTIONS

Fiber Tap Closures

» Rural Taps expand FOSC 450 capabilities, providing cabling flexibility and simplifying installations

» The FOSC 450 tap bundle includes the environmentally gel-sealed closure and a tap module with two trays

COMMSCOPE®

Mfr. Model #	Description	Tap Ports	dB	BSE Part #
155632-000	FOSC450-A4-4-TAP-4P-10, OSP	4	10	3413178
162761-000	FOSC450-A4-4-TAP-2P-19, OSP	2	19	3408220
221981-000	FOSC450-A4-4-TAP-2P-05, OSP	2	5	3408221
376281-000	FOSC450-A4-4-TAP-4P-13, OSP	4	13	3408222
398512-000	FOSC450-A4-4-TAP-2P-07, OSP	2	7	3408223
422658-000	FOSC450-B6-6-TAP-8P-17, OSP	8	17	3408224
423544-000	FOSC450-A4-4-TAP-4P-17, OSP	4	17	3408225
443374-000	FOSC450-A4-4-TAP-2P-14, OSP	2	14	3408226
461411-000	FOSC450-B6-6-TAP-8P-15, OSP	8	15	3408227
518463-000	FOSC450-A4-4-TAP-2P-17, OSP	2	17	3408228
533437-000	FOSC450-B6-6-TAP-8P-19, OSP	8	19	3408229
533785-000	FOSC450-A4-4-TAP-4P-21, OSP	4	21	3408230
559456-000	FOSC450-A4-4-TAP-2P-10, OSP	2	10	3408231
586756-000	FOSC450-A4-4-TAP-4P-15, OSP	4	15	3408232
615379-000	FOSC450-A4-4-TAP-2P-15, OSP	2	15	3408233
644487-000	FOSC450-A4-4-TAP-4P-07T, OSP	4	7	3408234
652236-000	FOSC450-B6-6-TAP-8P-14, OSP	8	14	3408235
657662-000	FOSC450-A4-4-TAP-2P-12, OSP	2	12	3408236
691383-000	FOSC450-A4-4-TAP-2P-21, OSP	2	21	3408237
795423-000	FOSC450-B6-6-TAP-8P-12, OSP	8	12	3408238
813678-000	FOSC450-A4-4-TAP-2P-08, OSP	2	8	3408239
833662-000	FOSC450-B6-6-TAP-8P-21, OSP	8	21	3408240
877793-000	FOSC450-B6-6-TAP-8P-11T, OSP F	8	11	3408241
951773-000	FOSC450-A4-4-TAP-4P-09, OSP	4	9	3408243
962525-000	FOSC450-A4-4-TAP-2P-04T, OSP	2	4	3408244
971541-000	FOSC450-A4-4-TAP-4P-11, OSP	4	11	3408245

Plug-and-Play Splitter Module

» Rugged packaging is built for high performance, while the Plug-and-Play design reduces installation time

» Bend-optimized fiber and ruggedized extreme temperature cabling

» Easy to insert and remove without affecting adjacent splitters

» Reversible dust cap makes test and turn-up easy

» 1 x 32

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
FPS-MPP1AJJ	FDH Plug & Play 1X32 Splitters SC/APC	3413178

FOSC 450 Tap Trays

» Rural Tap trays consist of two connected FOSC trays: a splice tray containing the tap device, and one containing the output connectors and connector bulkhead

» Rural Tap trays can also be ordered separately, without the closure, to add new functionality to an existing FOSC 450 closure, or for stocking purposes
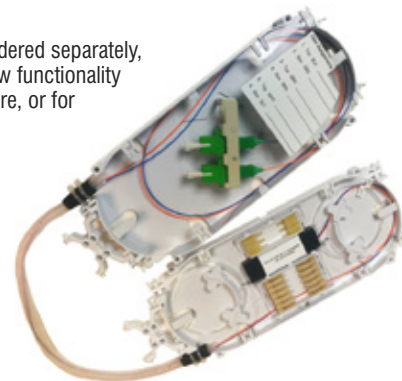
COMMSCOPE®

Mfr. Model #	Description	Ports	dB	BSE Part #
760235456	FOSC-ACC-A/B-TRAYTAP-2P-10, OSP	2	10	3408246
760235457	FOSC-ACC-A/B-TRAYTAP-2P-12, OSP	2	12	3408247
760235458	FOSC-ACC-A/B-TRAYTAP-2P-14, OSP	2	14	3408248
760235459	FOSC-ACC-A/B-TRAYTAP-2P-15, OSP	2	15	3408249
760235460	FOSC-ACC-A/B-TRAYTAP-2P-17, OSP	2	17	3408250
760235461	FOSC-ACC-A/B-TRAYTAP-2P-19, OSP	2	19	3408251
760235462	FOSC-ACC-A/B-TRAYTAP-2P-21, OSP	2	21	3408252
760235463	FOSC-ACC-A/B-TRAYTAP-2P-04T, OSP	2	4	3408253
760235464	FOSC-ACC-A/B-TRAYTAP-2P-05, OSP	2	5	3408254
760235465	FOSC-ACC-A/B-TRAYTAP-2P-07, OSP	2	7	3408255
760235466	FOSC-ACC-A/B-TRAYTAP-2P-08, OSP	2	8	3408256
760235467	FOSC-ACC-A/B-TRAYTAP-4P-10, OSP	4	10	3408257
760235468	FOSC-ACC-A/B-TRAYTAP-4P-11, OSP	4	11	3408258
760235469	FOSC-ACC-A/B-TRAYTAP-4P-13, OSP	4	13	3408259
760235470	FOSC-ACC-A/B-TRAYTAP-4P-15, OSP	4	15	3408260
760235471	FOSC-ACC-A/B-TRAYTAP-4P-17, OSP	4	17	3408261
760235472	FOSC-ACC-A/B-TRAYTAP-4P-19, OSP	4	19	3408262
760235473	FOSC-ACC-A/B-TRAYTAP-4P-21, OSP	4	21	3408263
760235474	FOSC-ACC-A/B-TRAYTAP-4P-07T , OSP	4	7	3408264
760235475	FOSC-ACC-A/B-TRAYTAP-4P-09, OSP	4	9	3408265
760235476	FOSC-ACC-A/B-TRAYTAP-8P-11T, OSP	8	11	3408266
760235477	FOSC-ACC-A/B-TRAYTAP-8P-12, OSP	8	12	3408267
760235478	FOSC-ACC-A/B-TRAYTAP-8P-14, OSP	8	14	3408268
760235479	FOSC-ACC-A/B-TRAYTAP-8P-15, OSP	8	15	3408269
760235480	FOSC-ACC-A/B-TRAYTAP-8P-17, OSP	8	17	3408270
760235481	FOSC-ACC-A/B-TRAYTAP-8P-19, OSP	8	19	3408271
760235482	FOSC-ACC-A/B-TRAYTAP-8P-21, OSP	8	21	3408272

FOSC 450 Fiber Optic Splice Closures

FOSC 450 fiber optic splice closures are a family of single-ended closures designed for use most anywhere there are fiber splicing and storage needs.

» Re-usable compressed gel cable sealing components that accommodate a wide range of cable sizes

» Capability to accommodate a variety of cable styles including loose tube or central core tube cables with single or ribbon fibers

» Hinging splicing trays that provide controlled access to splices and slack storage

» Splice and storage compartments accessible via a removable dome-clamp system

» Thermoplastic outer materials that withstand temperature and contaminate extremes

» Slack storage baskets of various sizes that provide different slack storage scenarios

» Many shared components between closure sizes

» A range of accessories for a variety of outside plant needs

» With valve for flash testing

COMMSCOPE®

Mfr. Model #	Description	Ports	Terminations	Tray Capacity/Installed	Slack Basket	Ground Feed Lugs	BSE Part #
058514-000	FOSC450-B6-6-NT-0-B3V	B6	6	NT	B	3	2802743
27646N-000	FOSC450-B6-4-NT-0-T0V	B6	4	NT	T	0	3408063
443162-000	FOSC450-A4-4-24-1-T1V	A4	4	24	T	1	2805644
467054-000	FOSC450-B6-6-24-1-B3V	B6	6	24	B	3	Call
931866-000	FOSC450-D6-6-NT-0-D6V	D6	6	NT	D	6	Call
A08617-000	FOSC450-A4-4-NT-0-A1V	A4	4	NT	A	1	Call
A08755-000	FOSC450-D6-6-72-1-D6V	D6	6	72	D	6	3408109
C30941-000	FOSC450-A4-4-NT-0-A0V	A4	4	NT	A	0	2805633
C32954-000	FOSC450-D6-6-NT-0-D3V	D6	6	NT	D	3	2730531
C62943-000	FOSC450-D6-6-72-1-D3V	D6	6	72	D	3	Call
D06322-000	FOSC450-A4-4-12-1-A1V	A4	4	12	A	1	Call
RH0132-000	FOSC450-B6-6-NT-0-T0V	B6	6	NT	T	0	Call

FOSC 450 Fiber Optic Splice Accessories

COMMSCOPE®

Mfr. Model #	Description	Cable Capacity	Compatability	BSE Part #
187312-000	AK-MULDRP-45ASEAL-FLAT4, Gel Drop Seal	4	450 A	Call
275897-000	FOSC-ACC-SM12-MODULES, Snap-in Module, 12 splice	—	—	Call
41606V-000	FAK-MULDRP-45-4W-DRP, Gel Tape Wrap	2 or 4	450 ALL	Call
449105-000	FOSC-ACC-MULT-EXT-GRND-3, Grounding Hardware Kit	—	450 ALL	Call
663259-000	FOSC-ACC-AERIAL-CLAMPS, Aerial Clamp Hardware Kit	—	450 ALL	Call
9C4235-000	FOSC-ACC-C/D-TO-A/B-HNG, Hinged Mounting Bracket Adapter	—	C/D to A/B tray	Call
A13909-000	FOSC-ACC-450-AERIAL-CLMP, Aerial Clamp Kit	—	—	Call
A33560-000	FOSC-ACC-450-FIBRGRD-KIT, Fiber Grounding Kit	—	450 ALL	Call
A38215-000	FAK-MULDRP-45-3P-DRP, Gel Plug	3	450 ALL	Call
B48230-000	FAK-MULDRP-45-BASIC-4W, Gel Wrap	4	450 ALL	Call
C82508-000	FOSC-ACC-WALL/POLE-MOUNT, Pole/Wall Closure Mounting	—	—	Call
CZ3388-000	FAK-MULDRP-45-SEAL-FLAT4, Gel Drop Seal	4	450 B, BS, C, D	Call
D80569-000	FOSC-450D-SPLTBASE-01, Split Base for Splice Closures	—	450 C and D	Call
E21473-000	FAK-MULDRP-45-4W/CBL-ATT, Gel Tape Wrap	2 or 4	600 ALL	Call
F29601-000	FOSC-ACC-PED-BRKT-UNIV, Pedestal Mounting Bracket	—	400, 450	Call
XJ261N-000	FAK-MULDRP-45-4P-DRP, Gel Plug	4	450 ALL	Call

FOSC 450 Fiber Optic Splice Trays

» For use with FOSC-450 Fiber Enclosures

COMMSCOPE®

Mfr. Model #	Description	Tray Type	No of Splices	BSE Part #
061064-000	FOSC-ACC-D-TRAY-RIBN-24	D	24	2104451
398955-000	FOSC-ACC-C-TRAY-RIBN-18	C	18	2716366
426579-000	FOSC-ACC-D-TRAY-36-KIT	D	36	1433268
429567-000	FOSC-ACC-A-TRAY-24-KIT	A	24	Call
497817-000	FOSC-ACC-A-TRAY-12-KIT	A	12	Call
579575-000	FOSC-ACC-D-TRAY-48-KIT	D	48	2599918
5Z963X-000	FOSC-ACC-A/B-TRAY-P6S2PA	A/B	—	3408283
709972-000	FOSC-ACC-A/B-TRAY-12-RBN	A/B	12	2306459
863927-000	FOSC-ACC-B-TRAY-24-KIT	B	24	Call
898849-000	FOSC-ACC-B-TRAY-12-KIT	B	12	1433264
915167-000	FOSC-ACC-D-TRAY-72-KIT	D	72	Call
EB063E-000	FOSC-ACC-A-TRAY-24-SMV60	A	24	2807820
RH0198-000	FOSC-ACC-C-TRAY-12	C	12	2477383
RH0202-000	FOSC-ACC-C-TRAY-24	C	24	Call
Z75279-000	FOSC-ACC-B-TRAY-24-SMV60	B	24	2838546

Fiber Optic Splice Tray

» Round
» Black
» Holds 12 heat shrink splice protectors
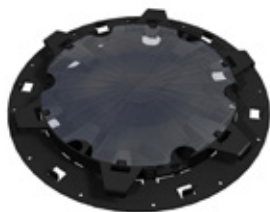
COMMSCOPE®

Mfr. Model #	Description	BSE Part #
FST-DRS12-HS	Fiber Splice Tray	2685765

Fiber Wall Box

Wall mount building entrance for terminations and splices.

» Steel
» White
» 6D x 17W x 10"H

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
9700066/00	WBE-FXC-048-WH, Fiber Wall Box	2778956

Optical Distribution Frame Cable Clamp

» Accepts cables with a maximum diameter of 10 mm (0.4") to 30 mm (1.2"), Kit of 3

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
OSP-CLPFEC-LG	OSP-CLPFEC-LG: KIT CBL CLAMP LRG OSP-FEC, Large Cable Clamp Kit	2836002

Gator 12F Fiber Optic Splice Closure

Flat Drop Splice/Repair.

» Designed for splicing two loose tube "flat drop" style cables of 1 to 12 fibers in above grade, below grade, and direct buried applications
» Uses gel sealing technology to create a sealed closure system that will fit into confined areas such as small "flowerpot" style handholes
» Incorporates unique cable hold down and strength member termination features and is capable of holding either fusion or mechanical splices
» Tone wires can also be terminated outside of the closure using the included hardware
» Re-enterable
» Black
» Wall mount

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
MR3919-000	FDSC-GATOR-12F-T, OSP Fiber Closures	Call

FIBRbox Splice Enclosure

FIBRBox splice enclosures offer CommScope's proven fiber splice management and organizing performance in a rugged enclosure designed for today's FTTX applications.

» Mounts in pedestals, on a wall, or on a pole (can be used in most 8, 10 or 12 inch pedestals)
» Overall dimensions (not including bus bar and mounting tabs): Standard (10", 12" pedestals) 18.3" x 8.6" x 4.2" (H x W x D), Narrow (8" pedestals) 18.3" x 6.3" x 4.2"
» Accommodates up to 4 CommScope FOSC splice trays or OC splitters for distributed PON solutions on standard design, and 5 FOSC splice trays on narrow design
» A variety of adapter brackets are sold separately

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
1H5935-000	FIBRBOX-C-12-1-CS, Standard Fiber Box Splice Enclosure, 12 Positions, 1A Tray	Call
1P2132-000	FIBRBOX-B-12-1-AS, Narrow Splice Fiber Box, 12 Positions, 1A Tray	2804154
D68198-000	FIBRBOX-PEDMTGKT-UNIVBP5, Universal Mounting Bracket	2790073
T75965-000	FIBRBOX-PEDMTGKT-UNIVPF, Wall-Mount Fiber Splice Enclosure	3408309

Fiber Optic Splice Closure 2178

» Provides secure protection for a broad range of fiber cables

» Engineered to meet common needs and field conditions, with different sizes to accommodate varying splice counts, ideal for wide varieties of applications

CORNING

Mfr. Model #	Size	BSE Part #
80611486525	2178-LS Splice Closure	167759
80611486608	2178-S Splice Closure	167440
2178XSB1T6PGA	2178-XSB Splice Closure-A	1995657
80611486749	2178-XSB Splice Closure-B	1995656

Universal Aerial Hanger Bracket Kit

» Hardware for aerial installation of the 2178-LS family splice closures (S, SL, LS, LL)

» Kit also accommodates the 2178 splice closure with one or two Cable Addition Kits 2181

» Contents: four nylon stop nuts, two corner inserts with studs, two universal hanger bracket assemblies

CORNING

Mfr. Model #	Description	BSE Part #
80610761373	2183-UHB Universal Aerial Hanger Bracket Kit for 2178	167931

Fiber Transition Tubing, 1 ft

» Protects 12 single or four 12-fiber ribbons between trays; cut in one-foot lengths

CORNING

Mfr. Model #	Description	Package	BSE Part #
80610859276	2520 Fiber Transition Tubing, 1 ft	50 Each	167742

Fiber Splice Organizer Tray 2532

» Tray is stackable and accommodates 24 single and 72 mass fusion splices

» 3.0 x 60 mm single fusion heat-shrink sleeve required (Fiber Optic Splice Sleeve 2170 or equivalent)

CORNING

Mfr. Model #	Description	Package	BSE Part #
80611304801	2532 Fiber Splice Organizer Tray	2 Each	1995658

Fiber Splice Organizer Trays

» 2522 tray stores and protects single and mass, mechanical, and fusion splices

» The 2523 tray stores and protects discrete and mass, mechanical, and fusion splices

» 2521 family splice inserts are easily added to secure splices into the trays. Fibers are routed into the trays using Transition Tubing 2520 that zips over the fibers

» 2522 tray holds two 2521 family splice inserts (Splice inserts must be ordered separately)

» 2523 tray holds four 2521 family splice inserts (Splice inserts must be ordered separately)

CORNING

Mfr. Model #	Description	Package	BSE Part #
80610859904	2522 Small Fiber Splice Organizer Tray	2 Each	167942
80610859912	2523 Large Fiber Splice Organizer Tray	2 Each	167444

Splice Sleeves can be found on
PAGE 38

Ribbon Fusion Splice Insert, 2521-RF, 2 Pack

» Holds five ribbon fusion splices in each insert, used in 2522/2523 trays. Accommodates double ceramic rod 8- to 12-fiber mass fusion sleeves

CORNING

Mfr. Model #	Description	Package	BSE Part #
80610859284	2521-RF Ribbon Fusion Splice Insert, 2 Pack	12 Packages	2086371

Fusion Splice Insert, 2521-F, 2-Pack

» Splice insert that holds twelve single-fusion splices in each insert, used in 2522/2523/2538 trays. 3 mm X 60 mm single-fusion heat-shrink sleeve required (2170 or equivalent)
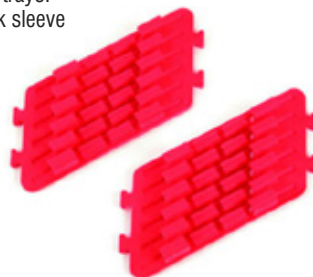
CORNING

Mfr. Model #	Description	Package	BSE Part #
80610859250	2521-F Fusion Splice Insert, 2-Pack	12 Packages	167799

Fibrlok® Splice Organizer Tray 2524

» Holds 24 Fibrlok Splices and eight buffer tubes.
» Fibrlok Splice Organizer Tray 2524 holds 24 Fibrlok splices
» Tray can be adapted for fusion splice storage using the 2524F tray insert. Buffer tubes are secured with channel snaps so that cable ties are not required. The fibers all enter the tray in one corner, eliminating the need for figure 8's in the fiber.
» Stackable trays feature snap-on hinge cover on each tray
» Individual trays may be accessed without disassembly of the trays above or below — and without kinking buffer tubes

CORNING

Mfr. Model #	Description	Package	BSE Part #
80610616882	Fibrlok® Splice Organizer Tray	2 Each	167846

Fusion Splice Organizer Tray — 2524-FT

» Holds 24 single fusion splices
» Buffer tubes are secured with channel snaps so that cable ties are not required. The fibers all enter the tray in one corner eliminating the need for figure 8's in the fiber
» Stackable trays feature snap-on hinge cover on each tray
» Individual trays may be accessed without disassembly of the trays above or below — and without kinking buffer tubes
» 3.0 x 60 mm single fusion heat-shrink sleeve required (2170 sleeve or equivalent)

CORNING

Mfr. Model #	Description	Package	BSE Part #
80610616874	Fusion Splice Organizer Tray	2 Each	167858

Fusion Splice Insert 2524-F

» Adapts the 2524 tray for fusion splices
» 3.0 x 60 mm single fusion heat-shrink sleeve required (Fiber Optic Splice Sleeve 2170 or equivalent)
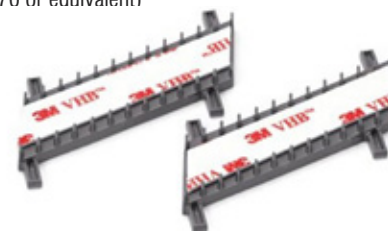
CORNING

Mfr. Model #	Description	Package	BSE Part #
78807028846	Fusion Splice Insert	24 Each	167728

Fiber Splice Organizer Tray 2527

» Accommodates up to 24 single fusion or 144 mass splices and has entry from all corners
» Maintains the minimum bend radius of fiber. The tray has a clear cover and splice holders included. 3.0 x 60 mm single fusion heat-shrink sleeve required (2170 sleeve or equivalent)
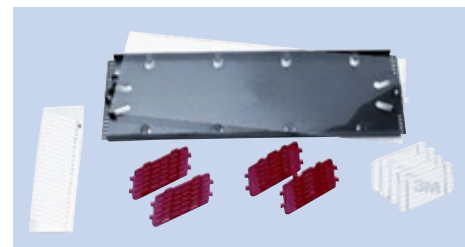
CORNING

Mfr. Model #	Description	Package	BSE Part #
80611175581	Fiber Splice Organizer Tray	2 Each	1704316

COYOTE® STP

Small-scale, cost-effective closure which provides an alternative to traditional network interface devices, while offering much greater applications flexibility.

- » Dimensions: 10.1" x 5.0" x 1.9" (257 x 126 x 49 mm)
- » Max splice capacity: 12 single fusion, 4 mechanical
- » Max adapter quantity: 2 simplex SC or 2 duplex LC
- » Grommet quantity: 2 (multi-hole grommets available)
- » Grommet cable diameter range: 0.100"–0.425" (2.5–10.8 mm) and flat drop cable
- » Applications: indoor/outdoor premises, pedestal, wall/pole network interface device (NID)
- » Designed and tested in accordance to Telcordia® GR-771-CORE Above Grade, IP-67 Rated Requirements
- » Constructed out of rugged UV-stabilized, flame-retardant material (UL94-5VA Rated)
- » Robust latch system and intergrated over-molded cover creates a secure seal and provides quick re-entry into the closure
- » Removable splice platform allows splicing and connections to be made outside of the closure
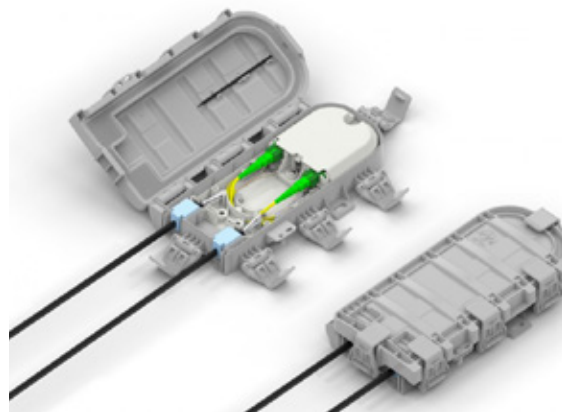
PLP **PREFORMED** LINE PRODUCTS

Mfr. Model #	Description	Cable Entries	BSE Part #
STP-BD-3-1-1-N	STP Cross Connect (1 SC/APC)	x1 (.100"-.154"), x1 (.250"-.350")	3539319
STP-BD-4-2-1-N	STP Cross Connect (1 SC/UPC) with Bonding	x1 (.100"-.154"), x1 (.250"-.350")	3539320
STP-BG-1-N-0-N	STP Splice Only	x1 (.100"-.154"), x1 (flat drop)	3539318
STP-CD-5-1-1-N	STP Direct Cross Connect (1 SC/APC, Tray Not Included)	x1 (.154"-.250"), x1 (.250"-.350")	3539317
STP-EE-2-N-0-N	STP Splice Only with Bonding	x2 (.350"-.389")	3539311
STP-EE-4-1-2-2	STP Cross Connect (2 SC/APC) with 3mm Pigtails & Bonding	x2 (.350"-.389")	3539312
STP-GG-1-N-0-N	STP Splice Only	x2 (flat drop)	3539313
STP-GG-3-1-1-2	STP Cross Connect (1 SC/APC) with 3mm Pigtails	x2 (flat drop)	3539314
STP-GG-3-1-1-N	STP Cross Connect (1 SC/APC)	x2 (flat drop)	3539321
STP-GG-3-1-2-2	STP Cross Connect (2 SC/APC) with 3mm Pigtails	x2 (flat drop)	3539315
STP-HH-5-1-2-N	STP Direct Cross Connect (2 SC/APC, Tray Not Included)	x4 (.100"-.123")	3539316

Accessories

Mfr. Model #	Description	BSE Part #
80061322	COYOTE STP External Shroud Kit	3539309
80061323	COYOTE STP Pedestal Mounting Bracket Kit	3539310

DON'T FORGET THESE!

DIDN'T FIND WHAT YOU WERE LOOKING FOR?
Contact your Border States account manager for assistance

FIBER OPTIC PRODUCTS

SOLUTIONS

COYOTE® DTC6 & DTC8

» Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements

» Constructed out of rugged UV-stabilized, flame-retardant material (UL94-5VA Rated)

» Hinged cover with integrated over-mold creates a secure seal and provides quick re-entry and re-use

DTC6

» Offers a durable, compact solution with multiple internal fiber organizers to support your current and future needs

» Dimensions: 10.8" x 7.8" x 3.2" (274 x 198 x 82 mm)

» Max splice capacity: 24 single fusion

» Max adapter quantity: 4 dual SC or 4 quad LC

» Grommet quantity: 6 (multi-hole grommets available)

» Grommet cable diameter range: large grommets = 0.118"–0.60" (3–15 mm), small grommets = 0.093"–0.420" (2.4–10.7 mm) and flat drop

» Applications: direct bury, below grade, pole/wall mount, pedestal, aerial, or interior applications

DTC8

» Largest member of the DTC family — provides the ultimate level of application flexibility for fiber drop distribution applications

» Dimensions: 12" x 8.8" x 3.5" (305 x 224 x 89 mm)

» Max splice capacity: 48 single fusion

» Max adapter quantity: 4 duplex SC or 4 quad LC

» Grommet quantity: 8 (multi-hole grommets available)

» Grommet cable diameter range: large grommets = 0.093"–0.550" (2.4–14.0 mm) and flat drop cable, small grommets = 0.093"–0.420" (2.4–10.7 mm) and flat drop cable

» Applications: direct bury, below grade, pole/wall mount, aerial, or pedestal

PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Cable Entries	BSE Part #
DTC6-CCFFFF-1-N-0-N	DTC6 Splice Only	x2 (.250"-.350"), x4 (flat drop)	3539324
DTC6-DDFFFF-1-N-0-N	DTC6 Splice Only	x4 (.156"-.170"), x4 (flat drop)	3539323
DTC6-FFFFFF-1-N-0-N	DTC6 Splice Only	x6 (flat drop)	3539322
DTC6-FFFFFF-2-1-2-N	DTC6 Cross Connect with 4 SC/APC	x6 (flat drop)	3539326
DTC6-FFFFGG-2-1-4-Y	DTC6 Cross Connect with 8 SC/APC & Pigtails	x2 (.350"-.420"), x4 (flat drop)	3539325
DTC8-AAAG-FFFF-1-1-N-0-N	DTC8 Splice Only, Protected Storage, 1 Tray	x1 (.420"-.470"), x4 (flat drop)	3539328
DTC8-AAHH-FFFF-2-4-1-4-Y	DTC8 Splice and Adapters, 4 Trays with 8 SC/APC	x2 (.470"-.550"), x4 (flat drop)	3539331
DTC8-AEEK-BBCD-1-4-N-0-N	DTC8 Splice Only, Protected Storage, 4 Trays	x2 (.320"–.370"), x4 (.093"–.125"), x2 (.170"–.250"), x1 (.250"–.350"), x2 (.156"–.170")	3539327
DTC8-HHJJ-DDDD-3-2-N-0-N	DTC8 Splice Only, Open Storage, 2 Trays	x2 (.470"–.550"), x12 (.156"–.170")	3539329
DTC8-LLLL-AAFF-2-1-1-4-N	DTC8 Splice and Adapters, 1 Tray with 8 SC/APC	x10 (flat drop)	3539330

Accessories

Mfr. Model #	Description	BSE Part #
8004104	DTC8 Pole/Wall Mounting Bracket	3539296
8004105	DTC8 Cable Storage Bracket	3539297
8004108	DTC8 Pedestal Bracket	3539298
8004109	DTC4/6 Pole/Wall Mount Bracket	3539277
8004110	DTC4/6 Cable Storage Bracket Kit	3539295
8004111	DTC4/6/8 Aerial Strand Bracket Kit	3539283
8004112	DTC4/6/8 Aerial ADSS Bracket Kit	3539285
8004172	DTC4/6/8 Mounting Bracket for ADSS Storage Bracket	3539299
80061352	10 Pack Small "A" Plug Grommets DTC4/6/8	3539280
80061361	10 Pack Small "G" 1h 0.350"–0.420" Grommet Kit DTC 4/6/8	3539281
80061369	10 Pack Small "B" 1h 0.170"–0.250" Drop Grommets DTC4/6/8	3539274

COYOTE® In-Line RUNT

Closure has the versatility to be used in both distribution and fiber-to-the-premise (FTTP) networks for in-line or butt applications.

» Dimensions: 18.7" x 10.0" x 3.7"

» Internal organizer manages buffer tube or ribbon

» Multiple splice tray designs support mass fusion splicing, single fusion splicing, or a combination of both

» Splice capacity (Max): 96 - Single Fusion using 80809958, 144 - Single Fusion using 80813152, 80 - Single Fusion using 80808945, 288 Mass Fusion using LGSTR144

» Flexible grommet sealing technology supports a wide range of flat and round cable profiles

» Factory-installed gasket allows re-entry and re-use

» Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements

» Flame-retardant kits available

PLP **PREFORMED** LINE PRODUCTS

Mfr. Model #	Description	Cable Entries	Number of Splice Trays	Cable Ports	Cable Diameters	BSE Part #
8006951	In-Line RUNT Closure	x2 1H (0.40"–0.60"), x1 2H (0.42"–0.60"), x1 4H (0.30"–0.43")	4 - 80809958, 4 - 80813152, 2 - 80808945, 2 - LGSTR144	4	0.93"–1.20" and Flat Drop	2417002

Accessories

Mfr. Model #	Description	BSE Part #
80809958	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 24 CT, Single Fusion	2979198
80813152	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 36 CT, Single Fusion	3531955
80808945	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 40CT, Single Fusion	2794250
LGSTR144	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 144 CT, Mass Fusion	2417197
8003713	Express Bracket Kit for In-Line RUNT	3539303
8003864	Aerial Mounting Bracket — ADSS Applications	3539286
80807794	Hardware Bag for In-Line RUNT	3539290

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FIBER OPTIC PRODUCTS

SOLUTIONS

COYOTE® 6.5" Dome Closure

Offers two length options of 17" and 22" to support either buffer tube or ribbon fiber applications.

- » 4-Port segmented end plate design provides independent access to each cable port without disrupting surrounding cables
- » Tray design allows the removal from the stack to enable multiple splicers to work simultaneously
- » Multiple tray designs support mass fusion splicing, single fusion splicing, or a combination of both
- » Flexible grommet sealing technology supports a wide range of flat and round cable profiles
- » Cable diameters: 0.093"–1.25" and flat drop
- » Ground studs: 4
- » Flame-retardant kits available
- » Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements

PLP **PREFORMED** LINE PRODUCTS

Mfr. Model #	Description	Dimensions	Cable Entries	Splice Capacity (Max)	Number of Splice Trays	BSE Part #
8006944	COYOTE 6.5" x 17" Dome Closure for Buffer Tube Fiber	8.57" x 17.85"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80809958; 216 - Single Fusion using 80813152; 120 - using 80808945	6 - 80809958, 6 - 80813152, 3 - 80808945	2416999
8006945	COYOTE 6.5" x 17" Dome Closure for Ribbon Fiber	8.57" x 17.85"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80809958; 216 - Single Fusion using 80813152, 120 Single Fusion using 80808945, 432 Mass Fusion using LGSTR144	6 - 80809958, 6 - 80813152, 3 - 80808945, 3 - LGSTR144	2417000
8006877	COYOTE 6.5" x 22" Dome Closure for Buffer Tube Fiber	8.57" x 22.60"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80810086; 216 Single Fusion using LGSTS72	4 - 80810086, 3 - LGSTS72	1679831
8006878	COYOTE 6.5" x 22" Dome Closure for Ribbon Fiber	8.57" x 22.60"	x2 1H (0.40"–0.60"), x2 1H (0.60"–0.85")	144 - Single Fusion using 80810086; 216 Single Fusion using LGSTS72, 648 using LGSTR216	4 - 80810086, 3 - LGSTS72, 3 - LGSTR216	2416994

Accessories

Mfr. Model #	Description	BSE Part #
80809958	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 24 CT, Single Fusion	2979198
80813152	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 36 CT, Single Fusion	3531955
80808945	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 40CT, Single Fusion	2794250
LGSTS72	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 72 CT, Single Fusion	2597295
LGSTR144	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 144 CT, Mass Fusion	2417197
LGSTR216	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 216 CT, Mass Fusion	2417198
8003833	6.5" Dome Aerial Mounting Bracket — ADSS Applications	3539278
8003835	Universal Mounting Bracket — Handhole Applications	3539282
80808651	Strength Member Bracket Kit — Includes (4) Long L-Brackets	3539287
80808878	Large Strength Member Adapter Kit	3539273
8004036	6.5" Dome Aerial Adjustable Offset Mounting Bracket — ADSS Applications	3539289

COYOTE® 9.5" Dome Closure

Offers two length options of 19" and 28" to support either buffer tube or ribbon fiber applications.

» 7-Port segmented end plate design provides independent access to each cable port without disrupting surrounding cables

» Tray design allows the removal from the stack to enable multiple splicers to work simultaneously

» Multiple tray designs support mass fusion splicing, single fusion splicing, or a combination of both

» Flexible grommet sealing technology supports a wide range of fl at and round cable profiles

» Cable diameters: 0.093"–1.25" and flat drop

» Ground studs: 7

» Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirements

PLP **PREFORMED** LINE PRODUCTS

Mfr. Model #	Description	Dimensions	Cable Entries	Splice Capacity (Max)	Number of Splice Trays	BSE Part #
COYD919B-000	COYOTE 9.5" x 19" Dome Closure for Buffer Tube Fiber	13.3" x 20.43"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	288 - Single Fusion using 80809958, 432 - Single Fusion using 80813152, 240 - Single Fusion using 80808945	12 - 80809958, 12 - 80813152, 6 - 80808945	3550447
COYD919R-000	COYOTE 9.5" x 19" Dome Closure for Ribbon Fiber	13.3" x 20.43"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	288 - Single Fusion using 80809958, 432 - Single Fusion using 80813152, 240 - Single Fusion using 80808945, 864 Mass Fusion using LGSTR144	12 - 80809958, 12 - 80813152, 6 - 80808945, 6 - LGSTR144	3550448
80061055	COYOTE 9.5" x 28" Dome Closure for Buffer Tube Fiber	13.3" x 29.4"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	360 - Single Fusion using 80810086, 432 - Single Fusion using LGSTS72	10 - 80810086, 6 - LGSTS72	2416833
80061056	COYOTE 9.5" x 28" Dome Closure for Ribbon Fiber	13.3" x 29.4"	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	396 - Single Fusion using 80810086, 576 - Single Fusion using LGSTS72, 1728 - Mass Fusion using LGSTR216	11 - 80810086, 8 - LGSTS72, 8 - LGSTR216	2416834

Accessories

Mfr. Model #	Description	BSE Part #
80810086	Splice Tray, COYOTE LITE-GRIP Long, Standard Profile 36 CT, Single Fusion	2794245
80809958	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 24 CT, Single Fusion	2979198
80813152	Splice Tray, COYOTE LITE-GRIP Short, Low Profile 36 CT, Single Fusion	3531955
80808945	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 40CT, Single Fusion	2794250
LGSTS72	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 72 CT, Single Fusion	2597295
LGSTR144	Splice Tray, COYOTE LITE-GRIP Short, Deep Profile, 144 CT, Mass Fusion	2417197
LGSTR216	Splice Tray, COYOTE LITE-GRIP Long, Deep Profile, 216 CT, Mass Fusion	2417198
8003869	9.5" Dome Aerial Mounting Bracket — ADSS Applications	3539288
8003940	9.5" Dome Aerial Mounting Bracket — Strand Applications	3539284
8003941	9.5" Dome Aerial Mounting Bracket — End Plate Mounting Applications	3539292
8003942	9.5" Dome Pole/Wall Mounting Bracket	3539291
80808651	Strength Member Bracket Kit — Includes (4) Long L-Brackets	3539287
80808878	Large Strength Member Adapter Kit	3539273

FIBER OPTIC PRODUCTS

COYOTE® HD (High-Density) Dome Closure

Offers an alternative fiber organizer to support high-density splice applications within the same footprint as PLP's existing 9.5" x 28" COYOTE Dome Closure.

» Dimensions: 13.3" x 29.4"
» Maximum Splice Capacity of 1728 or 3456 depending on cable construction
» 7-Port segmented end plate design provides independent access to each cable port without disrupting surrounding cables
» Two splice tray designs to support mass fusion splicing, single fusion, or a combination of both
» Modular tray design permits trays to hinge upward or be removed from the stack to allow multiple splicers to work simultaneously
» Grommet range now accepts fiber optic cable entry of up to 1.38" in diameter
» Cable diameters: 0.093"–1.25" and flat drop
» Ground studs: 7
» Designed and tested in accordance to Telcordia® GR-771-CORE Buried, Underground, IP-68 Rated Requirement

PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Cable Entries	Splice Capacity (Max)	Number of Splice Trays	Max Cable Diameter	BSE Part #
80061488	COYOTE® HD Dome Closure for Buffer Tube Applications	x2 1H (0.60"–0.85"), x2 x2 1H (0.85"–1.00")	576 - Single Fusion using 80813123, 864 Single Fusion using 80813301	8 - 80813123, 8 - 80813301	1.25"	3539300
80061406	COYOTE® HD Dome Closure for Ribbon Applications w/o Slack Basket	x2 1H (0.85"–1.00"), x2 1H (1.00"–1.25")	864 - Single Fusion using 80813123, 3456 Mass SWR using 80813122, 1728 Mass Fusion using 80813121	12 - 80813123, 12 - 80813122, 6 - 80813121	1.25"	3550449
80061408	COYOTE® HD Dome Closure for Ribbon Applications w/o Slack Basket	x2 1H (1.00"–1.25"), x2 1H (1.25"–1.38")	864 - Single Fusion using 80813123, 3456 Mass SWR using 80813122, 1728 Mass Fusion using 80813121	12 - 80813123, 12 - 80813122, 6 - 80813121	1.38"	3550450
80061407	COYOTE® HD Dome Closure for Ribbon Applications w/ Slack Basket	x2 1H (0.85"–1.00"), x2 1H (1.00"–1.25")	576 Single Fusion using 80813123, 2304 Mass SWR using 80813122, 1152 Mass Fusion using 80813121	8 - 80813123, 8 - 80813122, 4 - 80813121	1.25"	3550451
80061409	COYOTE® HD Dome Closure for Ribbon Applications w/ Slack Basket	x2 1H (1.00" - 1.25"), x2 1H (1.25" - 1.38")	396 - Single Fusion using 80810086, 576 - Single Fusion using LGSTS72, 1728 - Mass Fusion using LGSTR216	11 - 80810086, 8 - LGSTS72, 8 - LGSTR216	1.38"	3550452

Accessories

Mfr. Model #	Description	BSE Part #
80813121	Splice Tray, COYOTE Deep Profile Mass Fusion Flip Tray, 288 CT	3550458
80813122	Splice Tray, COYOTE Thin Profile Mass Fusion Flip Tray, 288 CT	3550459
80813123	Splice Tray, COYOTE Thin Profile Single Fusion Flip Tray, 72 CT	3539301
80813301	Splice Tray, COYOTE Thin Profile Single Fusion Flip Tray, 108 CT	3539302

FIBER OPTIC PRODUCTS

COYOTE® MPC

» Interior grid hole pattern allows custom organization of various components
» Offers NEMA4 performance
» Constructed with UL94-5VA rated polymer compounds, to provide the highest flame resistant rating
» Flexible grommet sealing technology supports a wide range of fl at and round cable profiles
» Integrated silicone foam rubber gasket designed to eliminate water entry
» 8 cable entrance ports around closure exterior
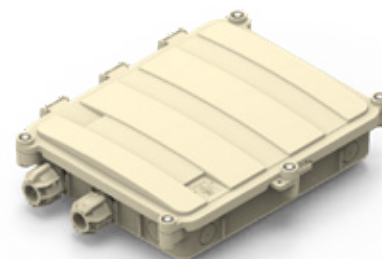
PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Description	Dimensions	Included Cable Entries	Included Splice Capacity	Adapter Quantity and Type	BSE Part #
COYMPC-000	Standard Empty MPC	17.5" x 14.4" x 4.0"	—	—	—	3539293
COYMPC-001	Standard MPC with 4-Hole Grommet	17.5" x 14.4" x 4.0"	4x (.120"–.275")	—	—	2417166
COYMPC-003	Standard MPC with Step Grommets and Cable Organizer	17.5" x 14.4" x 4.0"	4x (.120"–.275"), 8x (.120"–.200")	—	2x OptiTap	2417168
COYMPC-004	Standard MPC with Splice Tray, 4-Hole Grommet, and 2-Hole Grommet	17.5" x 14.4" x 4.0"	4x (.120"–.275"), 2x (.275"–.50")	12 Single Fusion	—	2417169
COYMPC-005	Standard MPC with 12 SC/UPC Adapters	17.5" x 14.4" x 4.0"	12x (.120"–.275"), 1x (.40"–.60")	—	12 SC/UPC	3539305
COYMPC-006	Standard MPC with Splice Tray and 1-Hole Grommet	17.5" x 14.4" x 4.0"	1x (.40"–.60")	16 Single Fusion	—	3539306
COYMPC-008	Standard MPC with 2-Hole Grommet Kit	17.5" x 14.4" x 4.0"	2x (.275"–.500")	—	—	3539307
80808916	Empty Bulkhead Kit — Accepts 2 Adapter Modules	—	—	—	—	3539275
8003879	Tray Bracket Kit	—	—	—	—	3539308

COYOTE® Silicone Grommets

» Multi-hole designs available to cover cable diameter ranges from 0.093"–1.25" (2.4–31.8 mm)
» Multi-hole designs allow for increased cable or drop capacity without the need to buy additional cable sealing and restraint kits
» Silicone grommet can be slit per the application procedure to accommodate terminated or expressed cables
» Eliminates the need for scuffing, adhesives, sealing tapes, or cure times
» Can be used across the COYOTE Fiber Optic Closure product line including the COYOTE LCC, In-Line RUNT, ONE, 6.5" and 9.5" Domes, Terminals, Terminal Domes, and GLC
» Designed and tested in accordance to Telecordia® GR-771-CORE, Buried, Underground; field proven since 2005
» COYOTE Silicone Grommet Kits include: (1) Grommet, (1) Cable Measure Tape, (1) Silicone Lubricant Pack, and Plugs (where applicable)

PLP PREFORMED LINE PRODUCTS

Mfr. Model #	Description	BSE Part #
8004065	4-Hole Silicone Grommet Kit, 0.250"–0.312"	3539276
8004094	8-Hole Silicone Grommet Kit, 0.093"–0.125"	3539304
80811034	4 Pack Grommet Kit 1h 0.250"–0.350" for COYOTE® DTC Only	3539294
80811033	4 Pack Grommet Kit 1h 0.170"–0.250" for COYOTE® DTC Only	2918932

Fiber Aerial Solution

Simple cost effective solutions for mid span splice or drops in PON networks.

» Strand mount
» Hinged splice tray
» Robust and sturdy

Mfr. Model #	Description	BSE Part #
CFAS-SPL01	Fiber Aerial Splice Closure Splice Configuration, No Adapter Panel, One 4" x 6" Drop Splice 24 Fiber Splice Tray, Includes Aerial Mounting Brackets	3396783

Fiber Transition Terminal

Flexible solution for NID applications are for use as a fiber backhaul connection at cell sites.

» Compact
» Sturdy
» Configurable to your requirements

Mfr. Model #	Description	BSE Part #
CFTT4-1SCAX	1 Port, SC/APC Adapter Type	3400602

FieldSmart® Fiber Crossover Multi-Purpose (FxMP) Patch and Splice Panels

Provides an interconnect or cross-connect environment for up to 288 SC ports or 576 LC ports of high-density fiber for inside plant environments and outside FDH deployments.

» Panels are fully certified to Telcordia GR-63 and GR-1089
» Fiber cable is certified to GR-20 and GR-409
» Terminations are designed and tested to Telcordia GR-326
» Supports all industry standard singlemode and multimode connectors
» Front cover is easily removable and installation of cassettes is simple with no tools needed
» Front access to pre-terminated assemblies with removable adapter plates for testing, cleaning and maintenance
» The entire 12-fiber Clearview Cassette is removable for hot-swap changes
» New larger designation cards provide greater writing area for standard and high-density panels
» Reversible mounting ears provide added flexibility

Mfr. Model #	Description	BSE Part #
FxMP Panel — In-Cassette Splicing (Patch and Splice), No Connectors, No Fiber, 19"/23" EIA or WECO Rack Mounting, Almond Color		
G-JBA-000-Z0Z-BZZ	2-Cassette Capacity, 24–48 Ports, 3.25" Rods, 19"W x 16.8"D x 1.75"H (1 RU)	3547820
G-EBB-000-Z0Z-AZZ	6-Cassette Capacity, 72–144 Ports, 4.77" Rods, Clearview Blue Cassette(s), Front and Rear Protection, Slack Basket, 19"W x 16.8"D x 3.5"H (2 RU)	3489548
G-KBB-000-Z0Z-AZZ	8-Cassette Capacity, 96–192 Ports, 4.77" Rods, Clearview Blue Cassette(s), Front and Rear Protection, Slack Basket, 19"W x 16.8"D x 4"H	3547821
FieldSmart Small Count Delivery Panel, No Connectors, 19"/23" EIA or WECO Rack Mounting, Almond Color		
SCD-X1RU-RM	2 Slots (xPAK and Clearview Cassette Compatible), 24–48 Ports, 21"W x 13.8"D x 1.75"H (1 RU)	2841975

Panels are also available in other sizes and configurations — contact your BSE representative for details.

Clearview® Blue Cassettes

Delivering the most scalable fiber management platform in the industry, Clearfield ensures your investment in capital equipment grows alongside your take rates. The key to this promise: Clearview® Blue, Clearview Black and the Clearview xPAK — the central building blocks of every element of the FieldSmart® product portfolio.

» Scalable building block to align capital expenditures to customer take rates
» Modular design allows ports to be configured to user-defined application requirements
» Patch and splice integrated splice tray removes the need for separate chassis space or a splice enclosure, reducing the required real estate
» Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
» Slack stored, bend-radius protected and secured against accidental physical damage from handling
» Tight buffer tube/cable entry/exit paths allow the technician a high degree of flexibility in deployment
» Ability to store 10 feet (3.05m) of exposed buffer tube in the in-cassette buffer tube location
» Terminations are designed and tested to Telcordia GR-326
» UL Certifications

CLEARFIELD

Mfr. Model #	Description	BSE Part #
EPZ-012-A1F-SUB	Loose Tube, Loaded with 12 SC/UPC Adapters, Filister Mounting Screws	3319590
EPZ-012-C1F-SUB	Loose Tube, Loaded with 12 SC/APC Adapters, Filister Mounting Screws	3301679
EYZ-012-C1F-SUB	Loose Tube, Loaded with 12 SC/APC Adapters, Universal Mounting Options	3470824
EYZ-012-C2F-SUB	Ribbon Cable, Loaded with 12 SC/APC Adapters, Universal Mounting Options	3475410
EYZ-024-F1F-SUB	Loose Tube, High-Density, Loaded with 24 LC/UPC Adapters, Universal Mounting Options	3492366

Clearview® xPAK Cassettes

Clearview xPAK cassettes provide small port counts and can be deployed as a stand-alone device, or with FieldSmart® Fiber Deliver Point (FDP) products for a wide range of network environments.

» Terminations are designed and tested to Telcordia GR-326
» Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
» Supports industry-standard SC, LC, ST, FC and MPO/MTP singlemode and multimode connectors
» Radius-protected storage for up to 1/2 meter of 900 μm jacketed fibers
» Durable polypropylene construction (impact plastic)
» Small design facilitates ease of use in crowded environments
» Front: 4 or 6 SC ports; Rear: 1 SC port or 1 MPO/MTP
» LGX-compatible flange mount
» Supports optional component integration, plug-and-play with MPO configurations

CLEARFIELD

Mfr. Model #	Description	BSE Part #
4PAK-SCA	4-Port SC/APC, xPAK Cassette, 900μm, Singlemode, 1m Pigtail, Durable Polypropylene, 4"W x 5.38"D x 1.14"H, with Standard and LG Faceplates	2492307
6PAK-SCA	6-Port SC/APC, xPAK Cassette, 900μm, Singlemode, 1m Pigtail, Durable Polypropylene, 4"W x 5.38"D x 1.14"H, with Standard and LG Faceplates	2599792

FIBER OPTIC PRODUCTS

FieldSmart® Fiber Distribution Hub (FDH) PON Cabinets

The complete solution for managing 12- to 864-port distribution fibers for an outside plant FTTx PON application.

» Terminations are designed, tested and certified to Telcordia GR-326
» Fiber cable certified to Telcordia GR-20 and GR-409; designed, tested and certified to Telcordia GR-3125
» Constructed of 0.090" or 0.125" aluminum with almond powder coating
» Optional 4" and 12" risers can be stacked to raise cabinet if required
» 12-fiber Clearview® Cassette protects fiber from environmental and human factors
» Rugged cable clamps protect the OSP cable breakouts from twisting and pistoning
» Pyramid roof and venting provide additional protection in all environments

CLEARFIELD

Mfr. Model #	Description	BSE Part #
FieldSmart FDH PON Cabinet— Patch Only — Front and Rear Access, for Vault, Pole or Pad Mounting		
R-CB1-144-C1E-0100-M 100F	144-Port Capacity with 12" Riser, Loaded with 144 SC/APC Adapters, 1 x 144 Fiber OSP Non-rated Loose Tube, 100 ft., 12 OSP Feeder Fiber Pigtail in Clearview Blue Cassettes, 0.125" Al, 17.81"W x 18.53"D x 21.62"H	3547822
R-DA2-288-C2E-0200-B 100F	288-Port Capacity with 4" Riser, Loaded with 288 SC/APC Adapters, 2 x 144 Fiber OSP Non-rated Ribbon, 100 ft., 24 OSP Feeder Fiber Pigtail in Clearview Blue Cassettes, 0.90" Al, 18.5"W x 16.98"D x 35.11"H	3547823

Other FDH PON Cabinet sizes and configurations available — contact your BSE representative for details.

FieldSmart® Fiber Deliver Point (FDP) 96-Port PON Pedestal Insert Kit/Vault Mount

Provides splice or interconnect functionality, in industry-standard Channell or Pencell pedestals and vaults, for drops to the home in the last mile of the access network.

» Provides for a maximum capacity of 96 homes served and is configured for PON environments
» Terminations are designed and tested to Telcordia GR-326
» Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
» Inserted into RUS pedestals
» Compliant to Telcordia GR-20
» Clearview® Cassette for physical fiber protection, bend-radius protection and access
» Buffer tube slack storage fully bend-radius protected
» Flood-proof non-metallic pedestals
» Wrench-accessible design

CLEARFIELD

Mfr. Model #	Description	BSE Part #
J8B-048-C1F-ZZZ-B	96-Port PON Patch and Splice Insert with Pedestal for Pencell Vault Mount, 12 Feeder Ports, 48 Distribution Ports, SC/APC Tight Buffer Clearview Blue Cassettes, 24" x 36" x 24" Vault Included	3312655

Split-lid Pencell vault included (contact your BSE representative for ordering information on an available Channell vault version)

FieldSmart® Fiber Delivery Point (FDP) SCD Wall Boxes

Ideal for any small count fiber scenario, the FieldSmart Small Count Delivery (SCD) Wall Box provides up to 24 fibers in a discrete footprint without sacrificing fiber management.

» Designed to land small port count fiber terminations and optical components as conveniently and inexpensively as possible
» Perfectly suited for in-building needs, such as business class demarcations, MDU distribution points and IDF locations in enterprise networks as well as pole-mount applications in outside plant environments
» Supports industry-standard SC and LC singlemode connectors
» Dual snap locks to ensure lid seals to base
» Mounting hole pattern for multiple applications
» Radius-protected storage for up to 15 feet (4.57m) of buffer tube
» NEMA 4 rated
» Gray flame-retardant PVC construction for durability
» Easy to install with both internal and external mounting holes
» Two bottom entry/exit points

CLEARFIELD

Mfr. Model #	Description	BSE Part #
FieldSmart® Wall Box for One xPAK Cassette with 3/4" Sealcon Fitting — 8.62"W x 3.91"D x 12.17"H		
FDP-XWB1	Empty (purchase xPAK Cassette separately)	2492308
FDP-XWB1-xPAK-xx	Loaded with One xPAK Cassette (specify number of ports and connector type)	3084354
FieldSmart® Wall Box for Two Clearfield Cassettes with 3/4" Sealcon Fitting — 11.37"W x 4.14"D x 15.24"H		
FDP-XWB2-12-SCA-B	Loaded with One Clearview Blue Cassette Splice Module with 12 SC/APC Connectors	3455284
FDP-XWB2-12-SC-B	Loaded with One Clearview Blue Cassette Splice Module with 12 SC/UPC Connectors	3459625
FDP-XWB2-24-SCA-B	Loaded with Two Clearview Blue Cassette Splice Modules with 12 SC/APC Connectors Each	3459333
FDP-XWB2-24-SC-B	Loaded with Two Clearview Blue Cassette Splice Modules with 12 SC/UPC Connectors Each	3547824

YOURx™ Flex Box

A flexible and scalable solution all within a single wall box.

» Ideal for cabling MDUs in both existing (brownfield) and new (greenfield) construction
» Addresses the challenge of how to manage incoming duct while supporting varying number of subscribers in different configurations with slack management while also reducing installation time
» Accepts Clearview Blue Cassette, Clearview xPAK, FieldShield Drop Wheel or SmartRoute Plate
» 1" inside mounting hole pattern for multiple applications
» Dual snap ensures gasket-sealed lid secures to box
» NEMA 3 rated, gray PVC construction
» Grounding lug included
» Top and bottom entry/exit points
» Slide-in aggregator plates eliminate the need for additional duct organizer

CLEARFIELD

Mfr. Model #	Description	BSE Part #
YOURx FieldSmart Flex Box with Capacity for Up to Four Cassettes — 12"W x 5.38"D x 15.66"H		
FDP-XWBF-BPLATE	Empty with Blank Plate (purchase cassettes separately)	3547825
WQB-012-C1F-CZZ	Loaded with One Clearview Blue Cassette Splice Module with SC/APC Connectors and Combo Plate with 12 10mm Microduct Flex Ports	3547826
WQB-012-A1F-CZZ	Loaded with One Clearview Blue Cassette Splice Module with SC/UPC Connectors and Combo Plate with 12 10mm Microduct Flex Ports	3547827
WQB-024-C1F-CZZ	Loaded with Two Clearview Blue Cassette Splice Modules with SC/APC Connectors and Combo Plate with 12 10mm Microduct Flex Ports	3547828
WQB-024-A1F-CZZ	Loaded with Two Clearview Blue Cassette Splice Modules with SC/UPC Connectors and Combo Plate with 12 10mm Microduct Flex Ports	3547829

FIBER OPTIC PRODUCTS

FieldSmart® Fiber Delivery Point (FDP) Indoor Wall Box

Optimized for MDU applications.

» Configurable with up to 144 distribution ports and 24 feeder ports using Clearview® Cassettes
» Able to house up to three 1 x 32 splitters
» Supports PON applications, fiber demarcations, entrance facilities and CCTV security systems
» Terminations are designed and tested to Telcordia GR-326
» Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
» Designed to comply to Telcordia GR-20 and GR-409
» Supports all industry-standard singlemode and multimode connectors
» 100% performance tested for insertion loss, return loss and final mechanical inspection
» Radius-protected storage for up to 5m of jacketed fiber or patch cord slack is provided (patch side)
» Rugged steel construction with security-enabled doors provides protection from tampering or inadvertent damage with industry-standard can wrench fasteners
» Removable doors and non-angled connectors enable fast, easy fiber jumper routing, reducing the risk of fiber damage when cleaning or patching fibers
» Upper and lower entry/exit points for feeder/customer premise cables

CLEARFIELD

Mfr. Model #	Description	BSE Part #
FieldSmart® Empty Indoor Metal Wall Boxes — Almond Color		
WFB-000-Z0Z-ZZZ	Empty with Blank Plate (purchase cassettes separately)	3547830

Available in other sizes and configurations — contact your BSE rep for more information.

YOURx-Terminal

Improves the customer application and craft experience by providing an access terminal capable of 16 drops, two feeder ports for mid-span and daisy-chaining scenarios, along with a fully protected and restorable pathway from the YOURx-Terminal to the YOURx-TAP using the Clearfield® design methodology of a modular and flexible approach that scales across the application environment.

» Designed to comply to Telcordia GR-771
» Supports FieldShield Pushable/Pullable SC Connectors for drop applications
» Supports pre-terminated FieldShield FLATdrop, FieldShield FLEXdrop, FieldShield StrongFiber or FieldShield Pushable Fiber assemblies for individual drop applications
» 100% performance tested for insertion loss, return loss and final mechanical inspection
» Designed using black UV-resistant thermoplastic material
» Environmentally sealed terminal providing maximum reliability and durability in the harshest OSP environments
» FieldShield FlexConnector provides bend-limiting, strain-relief protection and water-tight seal for FieldShield Cables
» Compact sealed design allows placement above or below grade

CLEARFIELD

Mfr. Model #	Description	BSE Part #
YOURx-Terminal with 4 SC/APC Drop Ports — 7.14"W x 6.74"D x 7.31"H		
FSTX-04C-51Z-ZAZ	12 ft. MPO Male Feeder	3547832
FSTX-04C-Z1M-ZZZ-0025F	Patch Only, 25 ft. OSP Armored SM Feeder	3547837
FSTX-04C-Z1T-ZZZ-0025F	Patch Only, 25 ft. Flat Drop SM Feeder	3547839
FSTX-04C-Z1W-ZZZ-0025F	Patch Only, 25 ft. Pushable FieldShield SM Feeder	3547841

Available in other sizes and configurations — contact your BSE representative for information.

YOURx™ YOURx-Aerial Terminal

When the network deployment plan calls out for an aerial application, Clearfield's YOURx-Aerial Terminal application allows for the flexibility to terminate a feeder fiber directly into revenue-generating drops and has the capability to accommodate a fiber cable mid-span, allowing cables to be fully utilized while feeding multiple terminals and access points.

» Compliant to Telcordia GR-771
» Supports FieldShield Pushable Duct and pushable/pullable fiber solution with SC connectors for drop applications
» Supports pre-terminated FieldShield FLATdrop cable assemblies for individual drop applications
» 100% performance tested for insertion loss, return loss and final mechanical inspection
» Black UV-resistant thermoplastic designed to resist corrosion
» Free-breathing terminal provides durability and protection in OSP environments
» Four side entrance holes accept multiple cable types — up to 144 fiber count — not to exceed 3/4" (19.05mm) O.D.
» Two secure compartments, separate splices from the drop ports, providing network security

CLEARFIELD

Mfr. Model #	Description	BSE Part #
YOURx-Aerial Terminal with SC/APC Connectors for Drop Ports and 10mm FlexPorts for Distribution — 14.80"W x 8.15"D x 11.61"H		
AFT-06C-Z1F-Z1Z	6 Drop Ports and 6 Distribution Ports	3547861
AFT-12C-Z1F-Z1Z	12 Drop Ports and 12 Distribution Ports	3547862
AFT-24C-Z1F-Z1Z	24 Drop Ports and 24 Distribution Ports	3547863

CraftSmart Fiber Test Access Point (TAP) Box

Gives the service provider an accessible exterior access point to test fiber integrity before it enters the customer premise, offering the ability to identify potential issues in conductivity from outside the customer premise location.

» Fiber terminations are Telcordia and RUS compliant
» Supports industry standard SC/APC, SC/UPC, LC/APC or LC/UPC connectors
» Overlapping cover seals unit from environmental elements
» Two rubber grommets provide sealing of feeder and drop cables
» Enclosure made of high-impact UV resistant thermal plastic material - to resist and withstand corrosive environments
» Designed to meet NEMA 3 criteria
» Integrated fiber management protects fiber from micro and macro damage
» Special coupler available for use with FieldShield® Microduct
» Wall and pole mount applications available

CLEARFIELD

Mfr. Model #	Description	BSE Part #
TAP-BBD-1Z-ZZZ	Tap Box Assembly, Patch and Splice with One Duplex SC/APC Adapter Port, 8.57"W x 1.67"D x 7.3"H	3396361

Also available with industry-standard SC/UPC, LC/APC or LC/UPC connectors — contact your BSE representative for details.

Home Deployment Kit (HDK)

Extends Clearfield's field-proven fiber management expertise and leading-edge fiber connectivity performance all the way into the home.

» Starting with the Test Access Point (TAP) solution of your choice, the Home Deployment Kit packages the required patch cords, fiber jack (Clearfield's CraftSmart Fiber Outlet) and necessary adapter and splice sleeve installation accessories in a single box.

» Minimizes truck rolls are minimized and speeds customer turn-up

» Accepts 10mm microduct and standard flat drop using supplied grommet tap

» 3mm grommets included for FLEXdrop cable

» Integrated splice sleeve retainer

» Supports industry-standard SC adapters

» Rear exit for direct entrance to premise

» Access available without customer needing to be there to identify potential problems

CLEARFIELD

Mfr. Model #	Includes	BSE Part #
FieldSmart SCD-TAP Home Deployment Kit — NEMA 4 Plastic Box, Large Format with FLEXdrop Deployment Reel, 8.62"W x 3.91"D x 12.17"H		
HDK-DBCC-CDD6-CCFW1	SC/APC Adapter, 100 ft. Black FLEXdrop Entrance Cable (Standard Simplex SC/APC to Pushable SC/APC), 10 ft. White FLEXdrop Equipment Cable (Standard Simplex SC/APC to Standard SC/APC)	3547933
YOURx-TAP Home Deployment Kit — NEMA 4 Plastic Box, Small Format with FLEXdrop Deployment Reel, 6.25"W x 2.81"D x 7.8"H		
HDK-AZCC-CDD4-CCFW1	SC/APC Adapter, 50 ft. Black FLEXdrop Entrance Cable (Standard Simplex SC/APC to Pushable SC/APC), 10 ft. White FLEXdrop Equipment Cable (Standard Simplex SC/APC to Standard SC/APC)	3547934
CraftSmart TAP-Flex Home Deployment Kit — NEMA 3S Plastic Box, Coil-Style, 10.35"W x 1.5"D x 5.12"H		
HDK-CZCC-CDF3-CCFW1	SC/APC Adapter, 25 ft. Black FLEXdrop Entrance Cable (Standard Simplex SC/APC to Pushable SC/APC), 10 ft. White FLEXdrop Equipment Cable (Standard Simplex SC/APC to Standard SC/APC), Fiber Outlet Box	3547935
CraftSmart TAP-Base Home Deployment Kit — NEMA 4 Plastic Box, Splice-Style, 6.3"W x 1.1"D x 3.5"H		
HDK-BZCC-CDF3-CCFW2	SC/APC Adapter, 25 ft. Black FLEXdrop Entrance Cable (Standard Simplex SC/APC to Pushable SC/APC), 15 ft. White FLEXdrop Equipment Cable (Standard Simplex SC/APC to Standard SC/APC), 1m Simplex Singlemode 900μm Cable (Standard SC/APC to Pigtail)	3547936

FL2000 Fiber Splice Panels & Accessories

» This product family is a complete line of modular panels developed for rack and wall mounting. The system is fully adaptable to small distribution frames, telephone closet (TC) applications, or active equipment racks

» FL2000 panels are designed for both 19- and 23-inch EIA rack or cabinet environments. FL2000 products provide termination, splicing and storage capabilities for in-building cables, outside plant cables and fiber optic terminal (FOT) equipment

» FL2000's modular design offers maximum flexibility to satisfy current needs and future growth requirements. A full line of options and accessories ensures compatibility with existing optical equipment. FL2000 panels accommodate value wadded module (VAM) plug-ins, adding flexibilty and functionality to the optical transport system. Splitters, wavelength division multiplexers (WDMs) and other optical components can easily be incorporated
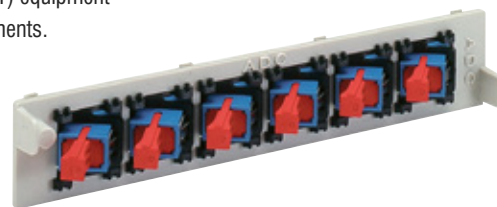
COMMSCOPE®

Mfr. Model #	Description	BSE Part #
FL2-48SPNL	Fiber Splice Panel, unloaded, 48 splices, 19 in, 2RU, Putty White	2811432
FL2-48TS875	Fiber/Termination Splice Panel, unloaded, 48 ports, 5RU, 19 in, Putty White	2811437
FL2-72TS140	Fiber/Termination Splice Panel, unloaded, 72 ports, 8RU, 19 in, Putty White	2685763
FL2-ACC007	Panel Cable Clamp Kit, Universal, with Cover	2071833
FL2-HZSTORE	Horizontal Interbay Panel	2812136
FL2-RSPLCE-HS	Fiber Splice, Commercial, Splice Tray Heat Shrink Splice, With Chip FL2 Terminations	2812475
FL2-6P7SC605R	Fiber Optic Adapter Pack with 6 Single-mode SC/UPC Simplex adapters and pigtails, 5 m	2811472
FL2-6PBLNK	Fiber Optic Blank Plate	2699591
FL2-6PSMLC	Plug-in Adapter	3513757

Test &
INSPECTION

FOCIS Flex Fiber Optic Connector Inspection System

A top choice of technicians installing and troubleshooting optical networks.

» 1-button to auto-focus, center, capture, analyze, and save
» IEC, IPC, and user-defined pass/fail analysis
» Untethered, compact, hand-held inspection
» Use independently or pair with OTDR

AFL

Mfr. Model #	Description	BSE Part #
FOCIS-FLX-NW-P4XA	FOCIS Flex No Wireless, APC Ferrule and Bulkhead Adapter Tips (1 ea.), One-Click Cleaner	3506357
FOCIS-FLX-NW-P4XN	FOCIS Flex No Wireless, No Adapter Tips or One-Click Cleaner (order separately)	3506358
FOCIS-FLX-NW-P4XU	FOCIS Flex No Wireless, UPC Ferrule and Bulkhead Adapter Tips (1 ea.), One-Click Cleaner	3506359
FOCIS-FLX-P4XA	FOCIS Flex Kit, Soft Carry Case/Holster, USB Cable, AC Charger, TRM 3.0 Reporting Software, Reference Guide, 2 User-Selected APC Adapter Tips (ferrule and bulkhead), User-Selected One-Click	3506360
FOCIS-FLX-P4XN	FOCIS Flex Kit, Soft Carry Case/Holster, USB Cable, AC Charger, TRM® 3.0 Reporting Software, Reference Guide, No Tips	3506361
FOCIS-FLX-P4XU	FOCIS Flex Kit, Soft Carry Case/Holster, USB Cable, AC Charger, TRM 3.0 Reporting Software, Reference Guide, 2 User-Selected UPC Adapter Tips (ferrule and bulkhead), User-Selected One-Click	3506362

FOCIS WiFi2® Fiber Optic Connector Inspection System

Ergonomic Fiber Optic Connector Inspection System that, when paired with an iOS or Android smart device, provides fast and accurate IEC/IPC/AT&T compliant and user-defined pass/fail end-face cleanliness analysis.

» App-based automatic and manual focus; auto-centering after image capture
» One button workflow using rapid LED feedback on probe
» Multi-color LED on probe for fast pass/fail user inspection feedback

AFL

Mfr. Model #	Description	BSE Part #
FOCIS-WIFI2-A	FOCIS WiFi2 Kit, FOCIS WiFi2, Soft Carry Case, AC Charger, User-Selected: (2) APC Ferrule and Bulkhead Adapter Tips and (1) One-Click	3506363
FOCIS-WIFI2-N	FOCIS WiFi2 Kit, Soft Carry Case, AC Charger, with NO Tips or One-Click	3506364
FOCIS-WIFI2-U	FOCIS WiFi2 Kit, Soft Carry Case, AC Charger, User-Selected: (2) UPC Ferrule and Bulkhead Adapter Tips and (1) One-Click	3506365
FOCIS-WIFI2-UA	FOCIS WiFi2 Kit, Soft Carry Case, AC Charger, User-Selected: (2) UPC and (2) APC Ferrule and Bulkhead Adapter Tips and (1) One-Click	3506366

VFI4 Visual Fault Identifier

Injects high-powered red-laser light to provide exceptional brightness and range for locating defects in single-mode and multimode fibers.

» Eye-safe Class 3R visible red laser source, 650 nm
» Output power of 5.0 mW with 10 km range
» 2.5mm universal adapter (included) accepts FC, SC, ST, etc. connectors
» 1.25mm universal adapter (included) accepts LC and MU connectors

AFL

Mfr. Model #	Description	BSE Part #
VFI4-01-0900PR	VFI4 Visual Fault Identifier with 2.5mm and 1.25mm Adapters	3544886

FIBER OPTIC PRODUCTS

FlexScan® FS200 Single-mode OTDR

All-in-one solution for detecting, identifying, locating, and resolving single-mode optical network issues. It is designed for both novice and expert technicians working in a range of environments, from FTTH PON to point-to-point networks.

- » Single, dual or triple wavelength single-mode OTDR
- » FleXpress® mode completes OTDR tests in <5 seconds
- » Easy to understand LinkMap® results with pass/fail indications
- » Integrated source, power meter, VFL (visual fault locator)

AFL

Mfr. Model #	Description	BSE Part #
FS200-100-BAS-P0-W0	FS200-100 Basic Kit, 1310/1550 OTDR w/VFL, Soft Carry Case	3534300
FS200-100-PLUS-P1-W1	FS200-100 Plus Kit, 1310/1550 OTDR w/VFL, OLS/OPM, BT/WiFi, Fiber Ring, One-Click, Soft or Hard Case Option	3534304
FS200-300-BAS-P0-W1	FS200-300 Basic Kit, 1310/1550 PON OTDR, VFL, BT/WiFi, Soft Case	3534307
FS200-300-PLUS-P1-W1	FS200-300 Plus Kit, 1310/1550 PON OTDR w/ VFL, OLS/OPM, BT/WiFi, Fiber Ring, One-Click, Soft or Hard Case Option	3534312
FS200-303-PRO-P1-W1	FS200-303 PRO Kit, 1310/1550/1625 Live PON OTDR w/ VFL, OLS/OPM, Fiber Ring, One-Click, FOCIS Flex w/ 2 Adapter Tips, Soft Case	3534322
FS200-304-PRO-P1-W1	FS200-304 PRO Kit, 1310/1550/1650 PON OTDR, VFL, OLS/OPM, BT/WiFi, Fiber Ring, One-Click, FOCIS Flex, Soft or Hard Case Option	3534330

FlexScan® TS100 FTTH PON Troubleshooter

Automated setup, ultra-fast fault location, and color-coded icons enable novice technicians to diagnose and repair fiber optic networks like experts.

- » Locate faults in <3 seconds with the press of a button
- » Displays link length, loss, ORL, and pass/fail results
- » Single-ended test reduces time and cost
- » Rugged, lightweight, hand-held for field use

AFL

Mfr. Model #	Description	BSE Part #
TS100-60-PLUS-P2	TS100-60 Plus Kit, 1650 PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, Soft Case	3549130
TS100-60-PRO-P2	TS100-60 PRO Kit, 1650 PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, FOCIS Flex w/ Adapter Tips, Soft Case	3549131
TS100-70-PLUS-P2	TS100-70 Plus Kit, 1650 Extended Range PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, Soft Case	3549132
TS100-70-PRO-P2	TS100-70 PRO Kit, 1650 Ext. Range PON Fault Locator w/ Dual-OPM, VFL, Fiber Ring, FOCIS Flex w/ Adapter Tips, Soft Case	3549133

OFI-BIPM Optical Fiber Identifier

Easy-to-use tool that determines if a fiber is live, the transmission direction, and the relative core power on standard and bend-insensitive single-mode and multimode fibers.

- » World-class signal detection sensitivity
- » Positive-stop trigger lock for optimum detection
- » Integrated optical power meter
- » 2.4" color touchscreen with backlight

AFL

Mfr. Model #	Description	BSE Part #
OFI-BIPM	OFI-BIPM Optical Fiber Identifier with Integrated Optical Power Meter, Includes One 2.5mm Universal Power Meter Port Adapter, BIPM-00-25.	3507230

FIP-400B Fiber Inspection Probes

These intelligent and automated test tools transform fiber inspection into a faster and simplified one-step process providing accurate and consistent test results, and preventing the reporting of false-positive results.

- » Onboard connector end face analysis (IEC, IPC or User Defined)
- » 100% Automated, one-step inspection process
- » Pass/Fail LED indicator for screenless operation
- » Full Reporting Capabilities
- » Feature-rich ConnectorMax2 mobile application compatible with Android™ and iOS devices

EXFO

Mfr. Model #	Type	Pass/fail Analysis	Autocentering	Magnification	Base Tip	BSE Part #
FIP-410B-APC-PROBEPOUCH	USB Wired	—	—	3X	APC	3539003
FIP-430B-APC-PROBEPOUCH	USB Wired	Automated	•	3X	APC	3539004
FIP-435B-APC-PROBEPOUCH	Wireless	Automated	•	3X	APC	3539005

FTBx-730C - PON FTTx/MDU OTDR Kits

Seamlessly characterize splitters in PON FTTx and MDU applications.

- » Test through high-port-count splitters (up to 1x128)
- » Single-mode port for in-service troubleshooting with in-line 1490/1550 nm power meter
- » iOLM-ready: one-touch multiple acquisitions, with clear GO/NO GO results presented in a straightforward visual format
- » Dynamic range of up to 39 dB
- » EXFO Connect-compatible: automated asset management; data goes through the cloud and into a dynamic database
- » The highest resolution for PON testing and the shortest PON dead zone to find more problems closer to the splitter than any other OTDR
- » Proven superiority in characterizing double-stage splitters and closely spaced events

EXFO

Mfr. Model #	Wavelengths	Base Software	Connector	Power Meter	VFL	Inspection Probe	Probe Type	BSE Part #
MAX-730C-SM2-BSE1	1310/1550nm	OTDR & Adv IOLM	SC/APC	1490/1550nm	•	FP410B	Wireless	3539009
MAX-730C-SM3-BSE1	1310/1550nm, 1625nm live	OTDR	SC/APC	—	—	FP435B	Wired	3539008

PPM-350D - Next-Gen PON Power Meter

The first PON-aware™ power meter to automatically detect and test next-gen and legacy PON technologies.

- » Unique PON-aware™ capability automatically detects PON technology in use
- » Compatible with GPON and EPON networks (GPON, EPON, XG-PON, XGS-PON, NG-PON2, 10G-EPON)
- » Supports 10G-capable PON networks
- » Pass-through mode for ONT/ONU verification
- » Smart app to configure, execute and report jobs
- » Compact, rugged and designed to comply with the IP54 enclosure standard
- » Rechargeable battery lasts for up to 8 hours of continuous use

EXFO

Mfr. Model #	Wavelengths	Base Software	Connector	BSE Part #
PPM-350D-DR-EA-EUI-91-EA-EUI-91-GP-10-071	E-PON, G-PON, XG-PON, XGS-PON, 10G-EPON, NG-PON2	PON Aware Dual PON & RF Video	SC/APC	3547884
PPM-352C-EA-EUI-91-EA-EUI-91-GP-10-071	B-PON, E-PON, G-PON	PON	SC/APC	3547885

OX1 Optical Explorer

The OX1 is a fiber optic tester that performs link verification and automated fault tracking in seconds. Empowers frontline technicians to explore further and do more.

» Patent pending EXFO Advisor 5-star rating scale: qualitative approach to assess fiber links
» Displays fiber length, loss and optical return loss (ORL) in under 3 seconds
» Intelligent: no settings required make it an essential for any frontline technician's toolkit
» On-the-spot detection and location of common causes of failures
» Built-in power checker and light source
» Click-out optical connectors and "self-diagnosis" let techs perform maintenance in the field
» Rechargeable battery for over 10 hours of use on a single charge

EXFO

Mfr. Model #	Software Version	Wavelengths	Connectors	BSE Part #
OX1-PRO-MI-91	Installation & Maintenance	1310/1550/1650nm	SC/UPC	3547883

MaxTester 940/945 Optical Loss Test Set (OLTS)

First tablet-inspired, multifunction optical loss test set (OLTS) delivering insertion loss, optical return loss and fiber length measurements at two wavelengths in five seconds via fully automated bidirectional FasTesT™ analysis.

» Unmatched FasTesT™ performances: 100% automated bidirectional test at two wavelengths under 5 seconds
» 100% automated fiber inspection: one-step process with pass/fail analysis at both fiber ends
» On-board assistant and diagnosis to eliminate reference errors
» Best-in-class singlemode distance range of 200 km
» On-board professional PDF reporting
» Bright, 7-inch high resolution touchscreen display — the biggest in the market

EXFO

Mfr. Model #	Wavelengths	Connector	VFL	Power Meter	Inspection Probe	Inspection Probe	Probe Type	Kit	BSE Part #
MAX-940-SM1-BSE1	1310/1550nm	SC/APC	•	—	•	FP410B	Wired	•	3539006
MAX-945-SM3-BSE1	1310/1550/1625nm	SC/APC	•	•	•	FP435B	Wireless	•	3539007

FLS-240 Pocket Pal — Visual Fault Locator

A straightforward solution for identifying breaks, bends, faulty connectors or splices, as well as other causes of signal loss. It can detect faults over distances of up to 5 km.

» Bright red laser at 635 nm
» Pulsed and CW operation
» 50 hours of operation (typical)
» Standard AAA alkaline batteries
» Rugged and weatherproof
» 2.5 mm universal connector

EXFO

Mfr. Model #	Wavelength	Ferrule	BSE Part #
FLS-241-UNIV	630-645nm	Universal 2.5mm	2086340

OptiFiber Pro HDR Singlemode OTDR V2 Kit, Wi-Fi, 1310/1550/1625 nm

Makes novices into experts and experts faster

» Multiple wavelengths (850, 1300, 1310,1490, 1550 and 1625 nm) support LAN, datacenters, PON, FTTx and outside plant applications
» Automated setup senses fiber characteristics and sets measurement parameters
» Manual Expert mode allows simple adjustments to automated settings for detailed testing
» EventMap automatically identifies events including connectors, splices, bends, and splitters
» Gesture-based interface allows fast, in-depth trace analysis
» SmartLoop™ OTDR technology tests two fibers in a single test eliminating the need to travel to the far end of the connection to perform tests
» Instantaneous on-board bi-directional averaging results included as standard
» Integrates with LinkWare™ Live to manage jobs and testers from any smart device
» Future-ready Versiv™ design supports copper certification to Category 8, fiber loss and inspection

Mfr. Model #	Description	BSE Part #
OFP2-200-S1625	OptiFiber Pro HDR Singlemode OTDR V2 Kit, Wi-Fi, 1310/1550/1625 nm	3508466

Simplifiber Singlemode 1310/1550 and 1490/1625 nm Verification Kit

Simple-to-use fiber-loss tester with advanced time-saving features

» Single-port, simultaneous dual-wavelength feature completes testing in half the time and saves measurements from both wavelengths into one record
» Additional wavelengths of 1490 and 1625 nm
» CheckActive™ feature emits an audible tone and displays an icon when a live fiber is detected, eliminating the need to set up a measurement
» FindFiber™ Remote ID enables one individual to quickly identify cable connections or routings (especially useful at patch panels), eliminating the need for multiple technicians on opposite ends of a fiber link to match color combinations
» Min/Max capability automates precision tracking of intermittent power fluctuations
» Large internal memory save 1000 results which enables continuous testing and recording
» LinkWare Cable Test Management software helps to analyze test results and create professional test reports
» Various kit configurations for all "first line" fiber handling needs, including fiber verification, inspection, and cleaning – all housed in a professional, rugged carrying case
» Mag Kit Strap Attachment - Strong rare earth magnet attaches to metal surfaces in the testing environment, allowing the technician to work "hands free"

Mfr. Model #	Description	BSE Part #
FTK2100	Simplifiber Singlemode 1310/1550 and 1490/1625 nm Verification Kit	3442679

Fiber Inspection Microscopes

» Feature 2.5mm (FC/SC/ST) and 1.25mm (LC) adapters
» Achromatic lens
» LED light
» CE certified to EU standards
» Includes cushioned nylon case and three AAA batteries

Mfr. Model #	Description	BSE Part #		Mfr. Model #	Description	BSE Part #
FIM-200	Fiber Inspection Microscope 200x	3512779		FIM-400	Fiber Inspection Microscope 400x	3512780

SOLUTIONS

ASSEMBLIES

Indoor Fiber Patch Cords

Fiber optic patch cords and jumper cables for nearly any application, meeting your requirements for cost, performance, reliability and rapid delivery.

» Terminations are designed and tested to Telcordia GR-326
» Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
» Supports industry-standard singlemode and multimode connectors
» Singlemode and multimode and hybrid cables available
» Wide variety of jacket sizes available for all applications — 3mm, 2mm, 1.6mm, 1.2mm, 900μm
» Riser- and plenum-rated jacket options available
» Available in simplex, dual-round and dual zip-cord configurations
» Industry standard terminations include ST, SC, FC, LC (ask a Clearfield representative for other connector availability)
» Environmentally stable, low-insertion loss, minimal back reflection

CLEARFIELD

Mfr. Model #	Length	BSE Part #
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/UPC to SC/UPC		
PA1-001-AZB-AZB-001M	1m	2715799
PA1-001-AZB-AZB-003M	3m	2715870
PA1-001-AZB-AZB-005M	5m	3544975
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/UPC to LC/UPC		
PA1-001-AZB-EZB-001M	1m	2715867
PA1-001-AZB-EZB-003M	3m	2715887
PA1-001-AZB-EZB-005M	5m	3544976
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/UPC to FC/UPC		
PA1-001-AZB-JZB-001M	1m	2715807
PA1-001-AZB-JZB-003M	3m	2715810
PA1-001-AZB-JZB-005M	5m	3544977
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 3mm Jacket, SC/UPC to FC/UPC		
PA1-001-AZD-JZD-001M	1m	2477327
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, SC/APC to SC/APC		
PA1-001-CZB-CZB-001M	1m	2715824
PA1-001-CZB-CZB-003M	3m	3293395
PA1-001-CZB-CZB-005M	5m	3296605

Mfr. Model #	Length	BSE Part #
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 3mm Jacket, SC/APC to SC/APC		
PA1-001-CZD-CZD-001M	1m	2477331
PA1-001-CZD-CZD-003M	3m	2477333
PA1-001-CZD-CZD-005M	5m	2477335
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 3mm Jacket, SC/APC to Pigtail		
PA1-001-CZD-ZZD-001M	1m	3544978
PA1-001-CZD-ZZD-003M	3m	3544979
PA1-001-CZD-ZZD-005M	5m	3544980
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, LC/UPC to LC/UPC		
PA1-001-EZB-EZB-001M	1m	2715866
PA1-001-EZB-EZB-003M	3m	2715828
PA1-001-EZB-EZB-005M	5m	3544981
Fiber Patch Cord, Simplex Singlemode Riser-Rated, Standard Boots — 2mm Jacket, LC/UPC to FC/UPC		
PA1-001-EZB-JZB-001M	1m	2715838
PA1-001-EZB-JZB-003M	3m	2715843
PA1-001-EZB-JZB-005M	5m	3544982

For lengths, configurations and connector options other than those listed above, contact your BSE representative.

Any Connector, Any Media Configuration, Any Length...Contact your Border States Account Manager for all your **CUSTOM CABLE NEEDS!**

Indoor/Outdoor Fiber Patch Cords

Ideal when splicing FTTH drops in the ONT/NID, remaining flexible even in extreme conditions.

» Use bend-insensitive fiber to help eliminate bend-radius issues inside the NID
» Also work well in outside plant cross-connect cabinets
» Terminations are designed and tested to Telcordia GR-326
» Clearfield® FiberDeep® Guarantee: 0.2 dB insertion loss or less, exceeding industry standards
» Supports industry-standard singlemode connectors
» Singlemode bend-insensitive ITU standard G.657.A glass fiber
» Uses Ruggedized OSP rated 2mm black jacketed cable
» Patch cords remain flexible and durable in extreme temperatures of -55°C to 85°C (-67°F to 185°F)
» Industry-standard terminations include ST, SC, FC, LC
» Environmentally stable, low-insertion loss, minimal back reflection
» All assemblies are 100% tested

![CLEARFIELD]

Mfr. Model #	Length	BSE Part #
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Long Boots — 2mm Jacket, SC/UPC to SC/APC		
PEA-001-AZB-CZB-010F	10 ft.	3486499
PEA-001-AZB-CZB-020F	20 ft.	3486500
PEA-001-AZB-CZB-030F	30 ft.	3486501
PEA-001-AZB-CZB-040F	40 ft.	3486502
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Standard Boots — 2mm Jacket, SC/APC to SC/APC		
PEA-001-CZB-CZB 1M	1m	2790079
PEA-001-CZB-CZB 3M	3m	2862787
PEA-001-CZB-CZB-005M	5m	3329762
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Standard Boots — 2mm Jacket, SC/APC to LC/UPC		
PEA-001-CZB-EZB-001M	1m	2790082
PEA-001-CZB-EZB-003M	3m	2790080
PEA-001-CZB-EZB-005M	5m	3329765
Fiber Patch Cord, Simplex Singlemode EZ-Bend Bend-Insensitive OSP-Rated, Standard Boots — 4.8mm White Jacket, SC/APC to SC/APC		
PEA-001-CZX-CZX-01-001M	1m	3544983
PEA-001-CZX-CZX-01-003M	3m	3328341
PEA-001-CZX-CZX-01-005M	5m	3544984
Fiber Patch Cord, Simplex Singlemode Bend-Insensitive OSP-Rated, Standard Boots — 2mm Jacket, LC/UPC to LC/UPC		
PEA-001-EZB-EZB-001M	1m	3450579
PEA-001-EZB-EZB-003M	3m	3452353
PEA-001-EZB-EZB-005M	5m	3452354

For lengths, configurations and connector options other than those listed above, contact your BSE representative.

Ruggedized DLC to DLC Distribution Cable

» Bend insensitive single mode fiber
» 1m length
» 6 mm dia over jacket
» Indoor
» Black jacket color

COMMSCOPE®

Mfr. Model #	Description	BSE Part #
FJ-2SM-015-1M	Ruggedized DLC to DLC Fiber Cable	3386306

DROP

FieldShield® Pushable Assemblies

» Terminations are designed and tested to Telcordia GR-326
» Smooth wall protective sleeve is easily removed, and outer housing snaps into place
» Option for FlexConnector in YOURx applications
» Zirconia ceramic ferrule measuring 1.25mm O.D.
» Tool-less installation
» Tech-friendly pre-terminated pushable connectors rapidly decrease deployment times and reduce installation costs by eliminating in-field splicing

![CLEARFIELD]

Mfr. Model #	Length	BSE Part #
FieldShield Pushable Patch Cord, Singlemode — One 250μm Fiber, 3mm Jacket, Standard SC/APC to Pushable SC/APC		
FS-AA1-001-CZZ-DZZ-0010F	10 ft.	3396407
FS-AA1-001-CZZ-DZZ-0025F	25 ft.	3396393
FS-AA1-001-CZZ-DZZ-0050F	50 ft.	3396394
FS-AA1-001-CZZ-DZZ-0075F	75 ft.	3396395
FS-AA1-001-CZZ-DZZ-0100F	100 ft.	3396396
FS-AA1-001-CZZ-DZZ-0150F	150 ft.	3396398
FS-AA1-001-CZZ-DZZ-0250F	250 ft.	3544971
FieldShield Pushable Patch Cord, Singlemode — 12-Fiber, 1x12 MPO Female to Pushable MPO Female		
FS-AA1-012-6ZZ-PZZ-0100F	100 ft.	3463932
FS-AA1-012-6ZZ-PZZ-0200F	200 ft.	3463796
FS-AA1-012-6ZZ-PZZ-0300F	300 ft.	3463798
FS-AA1-012-6ZZ-PZZ-0400F	400 ft.	3463799
FS-AA1-012-6ZZ-PZZ-0500F	500 ft.	3463800
FS-AA1-012-6ZZ-PZZ-0600F	600 ft.	3463801

Also available with singlemode SC/UPC, simplex and duplex LC/UPC and LC/APC connectors, as well as FlexConnector options — contact your BSE representative for details.

FIBER OPTIC ASSEMBLIES

FieldShield® FLEXdrop Assemblies

» Terminations are designed and tested to Telcordia GR-326
» UL Listed for plenum applications
» Smooth wall protective sleeve is easily removed, and outer housing snaps into place
» Zirconia ceramic ferrule measuring 1.25 mm O.D.
» Tool-less installation
» Tech-friendly pre-terminated pushable connectors rapidly decrease deployment times and reduce installation costs by eliminating in-field splicing

CLEARFIELD

Mfr. Model #	Length	BSE Part #
FieldShield FLEXdrop Pushable Patch Cord, Singlemode — One 900µm Fiber, 3mm UV-Stable Jacket, I/O Plenum, Standard SC/APC to Pushable SC/APC		
FS-AP2-001-CZZ-DZZ-0010F	10 ft.	3399817
FS-AP2-001-CZZ-DZZ-0025F	25 ft.	3400592
FS-AP2-001-CZZ-DZZ-0050F	50 ft.	3328338
FS-AP2-001-CZZ-DZZ-0075F	75 ft.	3328339
FS-AP2-001-CZZ-DZZ-0100F	100 ft.	3328340
FS-AP2-001-CZZ-DZZ-0150F	150 ft.	3444347
FS-AP2-001-CZZ-DZZ-0250F	250 ft.	3400094
FieldShield FLEXdrop Pigtail, Singlemode — One 900µm Fiber, 3mm UV-Stable Jacket, I/O Plenum, Standard LC/UPC to Pigtail (No Connectors)		
FS-AP2-001-EZZ-ZZZ-0100F	100 ft.	3463805
FS-AP2-001-EZZ-ZZZ-0200F	200 ft.	3463804
FS-AP2-001-EZZ-ZZZ-0300F	300 ft.	3463803
FS-AP2-001-EZZ-ZZZ-0400F	400 ft.	3463802

Also available with singlemode SC/UPC, simplex LC/UP and LC/APC connectors, as well as FlexConnector options — contact your BSE representative for info.

FieldShield® SC and LC Pushable Assembly Accessories

Designed to simplify the deployment of fiber where one or two fibers are required — provide a tech-friendly field-assembled connector that snaps together in seconds without jeopardizing fiber protection or optical reliability.

» Greatly reduce installation costs for fiber to the home (FTTH) installations, business class services, cell backhaul or any other small count delivery application
» Terminations are designed and tested to Telcordia GR-326
» Smooth wall protective sleeve is easily removed, and outer housing snaps into place
» Zirconia ceramic ferrule measuring 1.25 mm O.D.
» Tool-less installation

CLEARFIELD

Mfr. Model #	Description	BSE Part #
FS-H-SCA-02	FieldShield Housing Kit, SC/APC Housing for Pushable Connectors	3396489

Also available for singlemode SC/UPC, simplex LC/UPC and LC/APC connectors — contact your BSE representative for info.

FieldShield® FLATdrop Assemblies

» FlexConnector is designed and tested to GR-3120 using FieldShield FLATdrop
» Available in singlemode
» Supports most industry-standard flat drop cable
» FlexConnector provides an air-tight, water-tight connection
» FLATdrop peelable cable allows for the outer jacket to be stripped back to expose the more flexible 3mm sub-unit, easing storage of terminated ends
» Flat drop cable construction allows for installation in direct bury and aerial applications
» Toneable cables allow for traceability
» Leveraging the low cost of a traditional optical flat drop cable with option for plug-and-play field terminations

CLEARFIELD
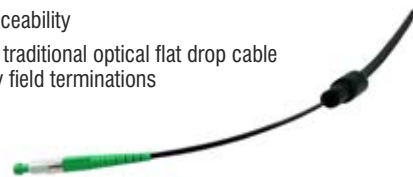
Mfr. Model #	Length	BSE Part #
FieldShield FLATdrop Peel-n-Play Patch Cord, Singlemode — One Fiber, Toneable Flat Cable, Pushable SC/APC, Half-Meter 3mm Breakout to Pushable SC/APC		
FSH-U1-001-DCK-DCK-0010F	10 ft.	3544972
FSH-U1-001-DCK-DCK-0025F	25 ft.	3544973
FSH-U1-001-DCK-DCK-0050F	50 ft.	3486362
FSH-U1-001-DCK-DCK-0075F	75 ft.	3486363
FSH-U1-001-DCK-DCK-0100F	100 ft.	3486364
FSH-U1-001-DCK-DCK-0150F	150 ft.	3486366
FSH-U1-001-DCK-DCK-0250F	250 ft.	3486370
FieldShield FLATdrop Peel-n-Play Patch Cord, Singlemode — One Fiber, Toneable Flat Cable, Pushable SC/APC, 26" 3mm Breakout to Pushable SC/APC		
FSH-U1-001-DXK-DXK-01-0010F	10 ft.	3544974
FSH-U1-001-DXK-DXK-01-0050F	50 ft.	3494534
FSH-U1-001-DXK-DXK-01-0100F	100 ft.	3494537
FSH-U1-001-DXK-DXK-01-0150F	150 ft.	3494538
FSH-U1-001-DXK-DXK-01-0250F	250 ft.	3494540

Pre-terminated with an SC, LC or MPO connector or with pigtail for customer choice application — contact your BSE representative for configurations not listed above.

RealFlex® 3 Fiber Optic Drop Cable Assembly

» SC/APC to stub
» RBR
» Indoor/Outdoor
» Ivory jacket
» TIA/EIA-568-B.3
» Green connector and boot

COMMSCOPE®
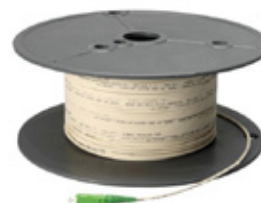
Mfr. Model #	Description	BSE Part #
MDC-J01F-0004F0	RealFlex 3 Drop Cable	2833234

MORE THAN fiber optics

You can rely on us for a wide variety of construction, industrial and utility materials. We partner with the best vendors in the industry to ensure we have what you need.

Contact your Border States Account Manager for more information.

DATA CENTER AND CENTRAL OFFICE

DC POWER

ENERGY AUTOMATION

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BSE **BORDER STATES**
Supply Chain Solutions™

Cleaning
SUPPLIES

SCRUBS® Hand Cleaner Towels

SCRUBS® Hand Cleaner Towels combine an advanced cleaning formula with a strong, dual-textured towel to thoroughly clean hands and surfaces anywhere, anyplace, anytime.

» Clean, citrus fragrance
» Advanced cleaning power
» For use on hands and surfaces
» No sticky residue

Mfr. Model #	Description	Specifications	BSE Part #
42272	Removes: Dirt, Tar, Oils, Grease, Paints, Adhesives, Epoxies, Caulks, Inks & Dyes, Urethanes, Lubricants, "Icky-PIC", Cable Jelly, Asphalt	NSF International, E4; Boeing D6-17487 Rev. R; Ford Tox #142621; GM FID #305639	1532843

WypAll® X60 Cloths

Pound for pound, WypAll® X60 Cloths absorb more than two times as much water as rags.

» Absorbent and reinforced to stay strong for cleaning performance in light duty tasks; they absorb water faster than rags
» Each white commercial paper towel measures 8.34" x 16.8" and dispenses one at a time from the box
» These lightweight cloths contain no adhesives or binders, yet they hold together and don't leave residues behind
» To create an effective general purpose industrial cloth, WypAll® combined proprietary HydroKnit fast absorbing technology with reinforced structure, so you get durability at a great value
» 126 cloths / box, 10 boxes / case, 1,260 cloths / case

Mfr. Model #	Color	Unit Size	BSE Part #
34790	White	8.34" x 16.8"	148366

MicroMax® NS Non-Skid Shoe Cover

MicroMax® NS provides the protection you need from dirt, grease, grime, light chemical splash.

» General purpose protection suitable for most Industrial applications
» Materials: 55 gram SBPP with laminated microporous film
» Non-skid protection
» Elastic ankle
» Economical
» Lightweight
» Features high MVTR (Moisture Vapor Transmission Rate)
» Fabric passes ASTM F1670 and ASTM F1671 for bloodborne pathogens
» Anti-stat treated per EN 1149

Mfr. Model #	Seam	Shoe Size	Case Size	BSE Part #
901NSP-XL	Serged	10–12	200 Pair/Case	2308354
901NSP-2X	Serged	13–15	200 Pair/Case	3243260

Grime-Away™ Cleaning Wipes

» Excellent Cleaner: Removes the toughest grimes
» Approval: Salisbury by Honeywell approved hand cleaning for compatibility with rubber insulating gloves
» Field Friendly: Easy to store in truck bins
» Double Sided Towel: Textured on one side for scrubbing and soft on the other side for wiping
» Moisturize: Softens hands while cleaning tools and surfaces. Will not dry out hands

Mfr. Model #	Description	Units/ Case	BSE Part #
HTC-D72	72-Count Grime-Away™ Wipe Canister	6	1435287

Thirsty? Hot or Cold, don't forget to stay hydrated. Contact Border States for

HYDRATION PRODUCTS

SpliceMaster® DT Dry Towels

Non-linting dry towels for medium voltage cable preparation.

- » Versatile: Use DT towels to apply bulk Polywater cleaners
- » Non-linting: DT towels leave no residue that could lead to tracking
- » Highly absorbent

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
DT-1212	100-Count 12" x 12" Dry Towels	1	558220
DT-69	200-Count 6" x 9" Dry Towels	1	165340

Hydrasol® Cable Gel Remover

Water-based cleaner for removing cable filling greases.

- » Fast and Effective: Maximum solvency power on PE/PJ or ETPR greases
- » Clean: Rinses completely with water
- » Less Waste: Good for multiple cleanings
- » Safe: No chlorinated solvent, CFC or glycol ether content
- » Tailored for the Job: Available in a variety of convenient packages

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
HS-1	HydraSol®-saturated Wipe	144	165314
HS-32LR	Plastic Qt HydraSol® w/Sprayer	12	165318
HS-640	5-Gal HydraSol® Cable Gel Remover	1	557975
HS-D72	72-Count HydraSol® Wipe Canister	6	1950898

SpliceMaster® Sanding Cloth Rolls

Non-conductive sanding cloth for medium and high voltage cable prep.

- » Non-Conductive: SP-ROLL leaves no conductive grit that could lead to tracking or arcing
- » Durable: SP-ROLL resists shredding and helps to evenly pencil semicon layer.
- » Convenient: Snip the SP-ROLL for desired amount. Eliminates waste
- » System Approach: Part of the SpliceMaster® Cleaning System

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
SP-ROLL	1" x 50-Yard Roll 120-Grit Sanding Cloth	1	558228

HARDWARE

Superstrut® Half-Slot Channel

SilverGalv® electro-galvanized steel finish for corrosion resistance.

- » 1-5/8" x 1-5/8" industry-standard dimension
- » 12-gauge steel construction
- » 9/16" x 1-1/8" slots on 2" centers
- » 10' lengths

ABB

Mfr. Model #	Description	BSE Part #
A1200HS-10-EG	Superstrut Half-Slot Channel, SilverGalv Finish, 10' Lengths	1108749

Steel City® Pipe Straps

Zinc-plated steel construction.

- » One-hole and two-hole styles
- » For use with rigid or intermediate metallic conduit

ABB

Mfr. Model #	No. of Holes	Screw Size	Conduit Size	BSE Part #
HS101	1	#10	3/8"	161595
HS901	2	#8	1/2"	161669
HS903	2	1/4"	1"	161684
HS907	2	1/4"	2-1/2"	161721

Superstrut® Universal Pipe Straps

Designed to be twist-inserted anywhere along the slot side of the strut channel.

- » Bolt head is combination slot and hex head for flexibility of attachment
- » SilverGalv® electro-galvanized steel finish for corrosion resistance
- » For use with rigid or intermediate metallic conduit, pipe or electrical metallic tubing (EMT)

ABB

Mfr. Model #	Trade size	Pipe O.D. Range	BSE Part #
703-1-1/4-EG	1-1/4"	1.508" to 1.660"	599436
703-1-1/2-EG	1-1/2"	1.738" to 1.900"	599359
703-2-EG	2"	2.195" to 2.375"	599425

INSTALLATION & MRO SUPPLIES

T&B® Fittings and Steel City® Conduit Fittings

Designed for use with rigid or intermediate metallic conduit.

» High-quality fittings from industry-leading brands
» Conduit nipples, bushings and locknuts

ABB

Mfr. Model #	Description	BSE Part #
847	T&B® Fittings Malleable Iron Chase® Nipple, 2"	164120
BU506	Steel City® Insulated Nonmetallic Conduit Bushing, 2"	900857
BU510	Steel City® Insulated Nonmetallic Conduit Bushing, 4"	161281
LN103	Steel City® Zinc-Plated Steel Locknut, 1"	161895
LN106	Steel City® Zinc-Plated Steel Locknut, 2"	161922
LN201	Steel City® Die-Cast Zinc Locknut, 2"	619070
LN210	Steel City® Die-Cast Zinc Locknut, 4"	619158

Anchors

» Assorted anchors for secure hold to masonry and concrete

Dottie

Mfr. Model #	Description	BSE Part #
21	#6-8-10 Tapered Anchors with Collar (Red)	112794
22	8-10-12 Tapered Anchors with Collar (Red)	112795
14H214	1/4" x 2-1/4" Hex Head Concrete Anchor System	113565
36H114	3/16" x 1-1/4" Hex Head Concrete Anchor System	112743
WD-8	#8 Wall Board Anchor Only Zinc	113811
14H114	1/4" x 1-1/4" Hex Head Concrete Anchor System	113557

Hex Head Cap Screws

» Carbon steel screws for medium strength applications, such as where controlled clamp force and high loads are required

Dottie

Mfr. Model #	Description	BSE Part #
5MB12112	1/2" x 1-1/2" Hex Head Cap Screws Grade 5 Zinc Plated	113434

Pan Head Phillips Sheet Metal Screws

» Stainless-steel, self-tapping screws for fastening light metal sheets, wood and plastic

Dottie

Mfr. Model #	Description	BSE Part #
PHSMSS61	6 x 1 Pan Head Phillips Sheet Metal Screws SS	997458
PHSMSS812	8 x 1/2 Pan Head Phillips Sheet Metal Screws SS	996951

Hex Nuts

» Carbon steel nuts connect both metal and wood components. Use with bolts, screws or any machine-threaded fasteners

Dottie

Mfr. Model #	Description	BSE Part #
5HN12	1/2-13 Hex Nuts Grade 5	112757

Drywall Screws

» Single lead point and spaced threads create strong hold when fastening drywall to wood framing.
» Countersunk bugle head provides clean, finished look

Dottie

Mfr. Model #	Description	BSE Part #
WR6114	6 x 1-1/4 Drywall Screws Phillips Bugle Head Coarse	232856

Hex Washer Head Self Drilling Screws

» Self-Drilling steel screws drill, tap, and fasten metal to metal objects in one operation, without the need to pre-drill

Dottie

Mfr. Model #	Description	BSE Part #
TEKHW101	10 x 1 Hex Washer Head Self Drilling Screws	113242
TEKHW10112	10 x 1-1/2 Hex Washer Head Self Drilling Screws	113262
TEKHW102	10 x 2 Hex Washer Head Self Drilling Screws	113277
TEKHW8112	8 x 1-1/2 Hex Washer Head Self Drilling Screws	113221

Pan Head Slotted/Phillips Sheet Metal Screws

» Self tapping steel screws with spaced threads and sharp points that are capable of tapping their own threads

» Typical applications for Sheet Metal Screws include fastening light metal sheets, wood, and plastic

Mfr. Model #	Description	BSE Part #
2WS81	8 x 1 Pan Head Slotted/Phillips (2-Way) SMS	114522

Slotted/Phillips Hex Washer Head Sheet Metal Screws

» Self tapping steel screws with spaced threads and sharp points that are capable of tapping their own threads

» Typical applications for Sheet Metal Screws include fastening light metal sheets, wood, and plastic

Mfr. Model #	Description	BSE Part #
HWSMS101	10 x 1" Slotted/Phillips Hex Washer Head SMS Zinc	114406
HWSMS10112	10 x 1-1/2" Slotted/Phillips Hex Washer Head SMS Zinc	114422
HWSMS1012	10 x 1/2" Slotted/Phillips Hex Washer Head SMS Zinc	114393
HWSMS102	10 x 2" Slotted/Phillips Hex Washer Head SMS Zinc	114435
HWSMS103	10 x 3" Slotted/Phillips Hex Washer Head SMS Zinc	114449

Flat Head Phillips Wood Screws

» High degree of grip strength on all woods

» Countersunk head provides flush surface after installation

Mfr. Model #	Description	BSE Part #
PHFW634	#6 x 3/4" Flat Head Phillips Wood Screws Zinc Plated	192464

Zinc Plated Washers

» Help distribute tightening forces

» Flat washers prevent loosening due to vibration and act as spacers

» Fender washers cover oversized holes

Mfr. Model #	Description	BSE Part #
FENW14114	1/4 x 1-1/4 Fender Washers Zinc Plated	112838
FW12	1/2 Flat Washers Zinc Plated	114032
FW14	1/4" Flat Washers Zinc Plated	114021
LW12	1/2" Lock Washers Zinc Plated	114003

Sheet Metal Screw Kit

» Assorted Hex Washer Head Sheet Metal Screw kit that features six different sizes of #10 screws

» Sizes range from 1/2" to 2"

» Used to fasten light metal sheets, wood, and plastic

Mfr. Model #	Description	BSE Part #
10HX	#10 Sheet Metal Screw Kit Hex Head/Slotted	114717

B-Line Series Multi-Grip Pipe Clamps for EMT, Rigid/IMC Conduit or Pipe

Pre-assembled to speed installation.

» For use with thinwall (EMT), Rigid/IMC conduit or pipe to clamp to strut channel

» Pre-assembled clamp and hardware for quicker installs

» Includes combination recess hex head machine screw and square nut

» Material: ASTM A1011 33,000 PSI min. yield

» Zinc finish

» Recommend to use with B-Line series strut

» UL Listed for U.S. and Canada

» For UL installations, follow Table 9 in UL2239

» Safety factor of 5

EAT•N B-LINE SERIES

Mfr. Model #	Nominal Size	Material Thickness	O.D. Size Range	Weight/ Carton	BSE Part #
B2211PA-1-1/4-ZN	1-1/4"	14" Gauge	1.500"–1.691"	15 lb.	238267
B2212PA-1-1/2-ZN	1-1/2"	12" Gauge	1.735"–1.931"	23 lb.	238209
B2213PAZN	2"	12" Gauge	2.192"–2.400"	26 lb.	238258

INSTALLATION & MRO SUPPLIES

SOLUTIONS

B-Line Series Slotted Hole Channel

Standard strut channel for multiple electrical and mechanical support applications.

» Features heat code numbering to help users identify a structural-quality steel product
» Material: Pre-galvanized steel, ASTM A653 SS (CSA Type II) (structural grade)
» Finish: Pre-galvanized, (CSA Type II) ASTM A653 SS G90
» 33,000 PSI min. yield
» See B-Line series multi-grip pipe clamps for thinwall (EMT), Rigid/IMC conduit or pipe to clamp to strut channel

FA·T·N B-LINE SERIES

Mfr. Model #	Channel Type	Channel Dimensions (height)	Channel Dimensions (width)	Channel Hole Pattern	Material Thickness	BSE Part #
B22SHGALV10	Slotted Hole	1-5/8"	1-5/8"	9/16" x 11/8" Slots on 2" Centers	12" Gauge	115161

Crouse-Hinds Series Rigid/IMC Straps

FA·T·N

Mfr. Model #	Description	BSE Part #
410	Steel, 1/2", Heavy Gauge	775859
496-3	Galvanized Steel, 1/2", Two Hole	774986
496-5	Galvanized Steel, 1", Two Hole	147877
496-9	Galvanized Steel, 2-1/2", Two Hole	147884

Crouse-Hinds Series Rigid/IMC Conduit Bushed (chase) Nipples

FA·T·N

Mfr. Model #	Description	BSE Part #
55	Non-insulated, Malleable iron, 2"	147595

Crouse-Hinds Series Rigid/IMC Insulating Bushing

FA·T·N

Mfr. Model #	Description	BSE Part #
936	Insulated, Plastic, 105°C, Threaded, 2"	775704
940	Insulated, Plastic, 105°C, Threaded, 4"	776171

Crouse-Hinds Series Rigid/IMC Conduit Locknut

FA·T·N

Mfr. Model #	Description	BSE Part #
13	Steel, 1"	775809
16	Steel, 2"	775806

Strap Kit for 3" Conduit with Two 1/2" x 1-1/4" Bolts

Aluminum conduit strap kit is used with T-Slot bars to secure conduit to riser poles. The head of the 1/2" hex bolt is captured within the slot and provides lateral adjustability of the conduit strap.

» Each strap kit is shipped assembled with two each 1/2" x 1-1/4" hex head bolts, lock washers and hex nuts
» Strap material is 3/32" x 1-1/4" aluminum

HUBBELL

Mfr. Model #	Weight Ea	BSE Part #
CSTK3	0.49 lbs.	871017

Two Hole Conduit/Cable/Wire Straps

» Made in USA
» UL Listed

Minerallac
Company

Mfr. Model #	Description	Mounting Hole Screw Size	BSE Part #
240	Two Hole Strap, Fits 1/2" Rigid/IMC Conduit & SER Cable #2, Pre-Galvanized	3/16"	149499
260	Two Hole Strap, Fits 1" Rigid/IMC Conduit & SER Cable 4/0, Pre-Galvanized	3/16"	149510
280	Two Hole Strap, Fits 1-1/2" Rigid/IMC Conduit, Zinc	1/4"	149519
292	Two Hole Strap, Fits 2-1/2" EMT & Rigid/IMC Conduit, Zinc	1/4"	149529

One Hole Conduit/Cable/Wire Straps

» Made in USA
» UL Listed

Minerallac
Company

Mfr. Model #	Description	Mounting Hole Screw Size	BSE Part #
MED40	Jiffy Clip, Medium Duty, One Hole strap, Fits 1/2" Rigid/IMC Conduit, Zinc	1/4"	149453
MED50	Jiffy Clip, Medium Duty, One Hole strap, Fits 3/4" Rigid/IMC Conduit, Zinc	1/4"	149458
MED60	Jiffy Clip, Medium Duty, One Hole strap, Fits 1" Rigid/IMC Conduit, Zinc	1/4"	149463
MED70	Jiffy Clip, Medium Duty, One Hole strap, Fits 1-1/4" Rigid/IMC Conduit, Zinc	5/16"	149467

Installation
ACCESSORIES

3M™ Steel Barb Cable Ties

» Fast, tough hold for industrial applications
» Infinite locking positions to secure wire or cable
» Head design helps prevent snagging for fast, easy installation
» Ribbed body helps prevent slippage in high-vibration environments
» Available in several strengths and lengths to cover your needs
» Colors available in natural for indoor use and UV weather-resistant black for indoor and outdoor use
» UL Listed 62275 Type 21 or 21S
» Plenum Rated AH-2 for use in air handling spaces

3M

Mfr. Model #	Type	Length in. (mm)	Width in. (mm)	Thickness In. (mm)	Max Bundle Diameter in. (mm)	Tensile lb (N)	Min Operating Temp °C (°F)	Max Operating Temp °C (°F)	Min Install Temp °C (°F)	Bag Quantity	BSE Part #
CTSB8BK50-C	Standard (Type 21S)	7.3 (186)	.19 (4,8)	.06 (1,5)	1.77 (45)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	100	3462118
CTSB8BK50-M	Standard (Type 21S)	7.3 (186)	.19 (4,8)	.06 (1,5)	1.77 (45)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	1000	3462120
CTSB11BK50-C	Standard (Type 21S)	11.6 (295)	.19 (4,8)	.06 (1,5)	3.19 (81)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	100	3462122
CTSB15BK50-C	Standard (Type 21S)	14.8 (376)	.19 (4,8)	.06 (1,5)	4.21 (107)	49 (220)	-40 (-40)	85 (185)	-40 (-40)	100	3462127
CTSB15BK120-L	Light Heavy Duty (Type 21S)	15.7 (400)	.39 (10,0)	.07 (1,7)	4.29 (109)	124 (550)	-40 (-40)	85 (185)	-40 (-40)	50	3462131
CTSB4BK18-C	Miniature (Type 21)	4.0 (102)	.09 (2,4)	.04 (1,0)	.90 (23)	18 (80)	-40 (-40)	85 (185)	-40 (-40)	100	3462101
CTSB6BK40-C	Intermediate (Type 21)	6.1 (155)	.14 (3,6)	.05 (1,3)	1.37 (35)	40 (178)	-40 (-40)	85 (185)	-40 (-40)	100	3462114

INSTALLATION & MRO SUPPLIES

Scotchlite 5005 Reflective Lettering System

» Black characters on a "safety orange" background conform to the American National Standards Institute (ANSI) Z53.I-1979. All other features are identical to 5000 Reflective Lettering System

» RUS Listed

CORNING

Mfr. Model #	Description	BSE Part #
80610613269	5005-0 Replenishment Decal	992207
80610613277	5005-1 Replenishment Decal	991976
80610613285	5005-2 Replenishment Decal	991975
80610613293	5005-3 Replenishment Decal	991974
80610613301	5005-4 Replenishment Decal	991973
80610613319	5005-5 Replenishment Decal	991972
80610613327	5005-6 Replenishment Decal	991978
80610613335	5005-7 Replenishment Decal	991977
80610613343	5005-8 Replenishment Decal	992209
80610613368	5005-A Replenishment Decal 1000 Pack	992206
80610613376	5005-B Replenishment Decal 1000 Pack	992205
80610613632	5005-BLANK Replenishment Decal 1000 Pack	991911
80610613384	5005-C Replenishment Decal 1000 Pack	991971
80610613392	5005-D Replenishment Decal 1000 Pack	991965
80610613624	5005-DASH Replenishment Decal	991912
80610613400	5005-E Replenishment Decal 1000 Pack	991964
80610613418	5005-F Replenishment Decal 1000 Pack	991963
80610613426	5005-G Replenishment Decal 1000 Pack	992204
80610613434	5005-H Replenishment Decal 1000 Pack	992203
80610613442	5005-I Replenishment Decal 1000 Pack	992202
80610613459	5005-J Replenishment Decal 1000 Pack	992201
80610613467	5005-K Replenishment Decal 1000 Pack	991970
80610613475	5005-L Replenishment Decal 1000 Pack	991969
80610613483	5005-M Replenishment Decal 1000 Pack	991968
80610613491	5005-N Replenishment Decal 1000 Pack	991967
80610613509	5005-O Replenishment Decal 1000 Pack	991966
80610613517	5005-P Replenishment Decal 1000 Pack	991910
80610613525	5005-Q Replenishment Decal 1000 Pack	991909
80610613533	5005-R Replenishment Decal 1000 Pack	991908
80610613541	5005-S Replenishment Decal 1000 Pack	991907
80610613558	5005-T Replenishment Decal 1000 Pack	991906
80610613566	5005-U Replenishment Decal 1000 Pack	991905
80610613574	5005-V Replenishment Decal 1000 Pack	991916
80610613582	5005-W Replenishment Decal 1000 Pack	991915
80610613590	5005-X Replenishment Decal 1000 Pack	991914
80610613608	5005-Y Replenishment Decal 1000 Pack	990390
80610613616	5005-Z Replenishment Decal 1000 Pack	991913

Pull Line

» 2-ply, rot- and mildew-resistant line used to pull rope through conduit

» Can be used with power fishing systems

Mfr. Model #	Description	BSE Part #
6502P	6500' Pull Line Two Ply Dispensing — Pail	112863

Nylon Fishing Line

» Used to fish cable through conduit

» Center feed for fast payout

» Excellent resistance to rot, abrasion, mildew. marine growth, petroleum products and most chemicals

Mfr. Model #	Description	BSE Part #
N85	2150' Nylon Fishing Line — Center Pull - 85#	229690

U-Cable Clip for RG-6 Coaxial Cable

Secures coaxial cable to wall of home or building.

Mfr. Model #	Material	Weight Ea	Package Qty	BSE Part #
PSC2170151	Aluminum	.003 lbs.	500	3547036

U-Cable Clips

Used to secure drop cables to wood and/or masonry surfaces.

» Constructed of soft aluminum for pliability

Mfr. Model #	Description	BSE Part #
SI-0988-11	U Cable Clip, RG-11	3521331
SI-0988-12G	U Cable Clip, #12 AWG	3521332
SI-0988-59	U Cable Clip, RG 59	3521333
SI-0988-6	U Cable Clip, RG 6	3521334
SI-0988-6G	U Cable Clip, #6 AWG	3521335
SI-0988-6Q	U Cable Clip, RG6 Quad	3521336
SI-0988-C5	U Cable Clip, Category 5	3521337
SI-0988-D6	U Cable Clip, Dual RG6	3521338

Dome-Top® Barb Ty Cable Ties

» Weather Resistant Nylon 6.6
» Greater resistance to damage caused by ultraviolet light — indoor or outdoor use
» Dome-top head features unique patented design with round, smooth edges
» Stainless steel locking barb provides consistent performance, reliability, and infinite adjustability through entire bundle range
» High strength and low thread force
» Curved tip is easy to pick up from flat surfaces and allows faster initial threading to speed installation

PANDUIT®

Mfr. Model #	Type	Length	Width	Thickness	Max. Bundle Dia.	Min. Loop Tensile Str.	Std. Pkg. Qty.	Std. Ctn. Qty.	BSE Part #
BT1M-C0	Miniature Cross Section	4"	.095"	.036"	.9"	18 lbs.	100	1000	116661
BT1.5I-C0	Intermediate Cross Section	6.1"	.141"	.041"	1.5"	40 lbs.	100	1000	565734
BT2I-C0	Intermediate Cross Section	8"	.141"	.041"	2"	40 lbs.	100	1000	565655
BT3I-C0	Intermediate Cross Section	11.3"	.141"	.049"	3"	40 lbs.	100	1000	565636
BT2S-C0	Standard Cross Section	8"	.185"	.045"	2"	50 lbs.	100	1000	565889
BT2S-M0	Standard Cross Section	8"	.185"	.045"	2"	50 lbs.	1000	10,000	565600
BT4S-C0	Standard Cross Section	15.1"	.185"	.052"	4"	50 lbs.	100	1000	116656
BT4LH-L0	Light-Heavy Cross Section (straight tip)	14.9"	.275"	.065"	4"	120 lbs.	50	500	565567

Pan-Ty® Striped Cable Ties

» Nylon 6.6 material for indoor use
» Striped Pan-Ty® Cable Ties in 25 color combinations match the universally accepted Even-Count Color Code
» Solid color ties are available for identification of "super groups" in cable containing more than 600 pairs
» Each 50-piece package fits in the Pan-Pouch™ Kit or pocket pouch shown on the next page
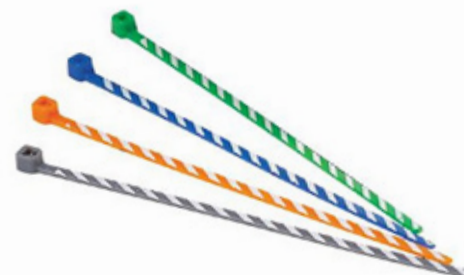
PANDUIT®

Mfr. Model #	Color	Length	Width	Thickness	Max. Bundle Dia.	Min. Loop Tensile Str.	Std. Pkg. Qty.	Std. Ctn. Qty.	BSE Part #
PLT1M-L1	Brown	4"	.1"	.036"	.82"	18 lbs.	50	1000	565844
PLT1M-L1-4	Brown/Yellow Stripe	4"	.1"	.036"	.82"	18 lbs.	50	1000	567439
PLT1M-L2	Red	4"	.1"	.036"	.82"	18 lbs.	50	1000	567451
PLT1M-L3	Orange	4"	.1"	.036"	.82"	18 lbs.	50	1000	565843
PLT1M-L5	Green	4"	.1"	.036"	.82"	18 lbs.	50	1000	565840
PLT1M-L6	Blue	4"	.1"	.036"	.82"	18 lbs.	50	1000	565841
PLT1M-L8	Slate	4"	.1"	.036"	.82"	18 lbs.	50	1000	565842

DO MORE with LESS

SupplyTrax™

SupplyTrax™ material management solutions from Border States provide a full suite of services and solutions to make it easier for you and keep your business ahead of the competition.

FLEX CLIPS™

Flex Clips™ superior design will not pinch,compress,cut into, or damage the cabl
The integrity of the signal is unimpeded and the quality of the drop is assured.

» Housings made from proprietary UV-Stablized Polyethylene
» Pre- inserted yellow zinc coated combination slotted,phillips, hex-head screws are long lasting
» Wrap around the fiber/cable without exerting pressure
» Adjustable teeth allow the clips to expand

Telecrafter Products
Designing, manufacturing, and delivering quality drop supplies

Mfr. Model #	Description	Screw in Depth	Screw Type	Color	Quantity	BSE Part #
D4BK	Dual Series 6 Cable	1/2" Screw in Depth	Standard Screw	Black	Bag of 100	3075323
D7BK	Dual Series 6 Cable	7"8" Screw in Depth	Standard Screw	Black	Bag of 100	1488439
G4BK-03	3mm Fiber,Cat 3, Grnd. Wire	5/8" Screw in Depth	Standard Screw	Black	Bag of 100	2262820
G4BK-05	4+mm Fiber, Cat 5	9/16" Screw in Depth	Self-Tapping	Black	Bag of 100	2274963
G4WH-03	3mm Fiber,Cat 3, Grnd. Wire	5/8" Screw in Depth	Standard Screw	White	Bag of 100	3404778
G4WH-05	4+mm Fiber, Cat 5	9/16" Screw in Depth	Self-Tapping	White	Bag of 100	3480542
L7BK	RG 7&11 ONT Fiber, Power	7/8" Screw in Depth	Standard Screw	Black	Bag of 100	2262822
Q7BK	Series 6 Quad Cable	1/2" Screw in Depth	Standard Screw	Black	Bag of 100	2438386
S4BK	Series 6 Tri-Sheld, Cat 6	1/2" Screw in Depth	Standard Screw	Black	Bag of 100	3487582
S4WH	Series 6 Tri-Sheld, Cat 6	1/2" Screw in Depth	Standard Screw	White	Bag of 100	2864413
S7BK	Series 6 Tri-Sheld, Cat 6	7/8" Screw in Depth	Standard Screw	Black	Bag of 100	1480678
S7BK-ST	Series 6 Tri-Sheld, Cat 6	7/8" Screw in Depth	Self-Tapping	Black	Bag of 100	2571087
S7WH	Series 6 Tri-Sheld, Cat 6	7/8" Screw in Depth	Standard Screw	White	Bag of 100	3535169

FOC Tag

» 3.875" x 1.75" x .035" polyethylene
» Black on orange with self-laminating flap.

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
FOCM-SL-GENERIC	Self-Laminating Fiber Optic Cable Tag	100	50 Per Pack	3539051

FOC Tag

» 3.875" x 1.75" polyethylene
» Black on orange

WILLIAM FRICK & COMPANY

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
FOCM-CAUT-GEN	Caution Fiber Optic Cable Tag	100	50 Per Pack	3539050

LUBRICANTS

FTTx Communications Lubricant

Thin spray lubricant to lower tension in fiber drops and data cables.

» Superior Performance: Reduces friction with ultra thin coating levels
» Zero Mess: Dries quickly and leaves no mess on the receiving side of the cable pull, unlike traditional wax or gel lubricants
» Low-Friction Residue: Even lubricates when dry
» Spray or Wipe Application: Efficient and easy to use
» Compatible with Cable Jackets: Suitable for a variety of cable jacket types

Polywater®

Mfr. Model #	Description	Units/Case	BSE Part #
FTTx-128	1 Gal Jug Polywater® FTTX Lube	4	3330047
FTTx-35LR	Qt Spray Bottle Polywater® Lubricant FTTX	12	1950893
FTTx-640	5 Gal Pail Polywater® FTTX Lube	1	3535150
WFTTX-35LR	Qt Bottle FTTX Lube with Trigger Spray	12	3535153

F Fiber Optic Cable Pulling Lubricant

For pulling fiber optic and other communications cable.

- » Superior Friction Reduction: For lower tension and or longer cable pulls
- » Wets Out and Coats PE Jackets: Lubricates at all points of cable rub on long pull
- » Pourable: Can be poured into innerducts and feeder tubes
- » Compatible with Cable Jackets: Avoid weakened or cracked cable jackets
- » Slow Drying: Leaves a lubricious residue for lasting lubrication

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
F-128	Gal Polywater® Lubricant F	4	165368
F-320	2.5-Gal Polywater® Lubricant F	2	165311
F-35	Qt Squeeze Bottle Polywater® Lubricant F	12	165375
F-640	5-Gal Polywater® Lubricant F	1	165381
WF-128	Gal Winter Grade Polywater® Lubricant WF	4	165378
WF-320	2.5-Gal Winter Grade Polywater® Lubricant WF	2	557778
WF-35	Qt Squeeze Bottle Winter Grade Polywater® Lubricant WF	12	3535152
WF-640	5-Gal Winter Grade Polywater® Lubricant WF	1	165313
WP-128	Gal Winter Grade Polywater® PreLube 2000™	4	782669

Prelube 2000™ Cable Blowing Lubricant

Increases installation distance when blowing fiber optic cable.

- » Low Friction: Increases blowing distance
- » Easy to Use: Simply squeeze into duct before blowing fiber optic cable
- » Tested and Approved: Recommended by most blowing equipment manufacturers
- » Winter Grade Available: For use in sub freezing temperatures
- » Compatible with Cable Jackets: Avoid weakened or cracked fiber optic jackets

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
P-128	Gal Polywater® Prelube 2000™	4	782671
P-35	Qt Polywater® Prelube 2000™	12	558503
P-640	5-Gal Polywater® Prelube 2000™	1	782171
WP-35	Qt Winter Grade Polywater® PreLube 2000™	12	782670
WP-640	5-Gal Winter Grade Polywater® PreLube 2000™	1	782170

MRO

Energizer® Industrial Batteries

- » Economical, high source of portable power for meters, flashlights and other devices

Energizer

Mfr. Model #	Description	Nominal Voltage	BSE Part #
EN22	9V Industrial Battery	9 Volts	107502
EN91	AA Alkaline Battery	1.5 Volts	107506
EN92	AAA Alkaline Battery	1.5 Volts	107508
EN95	D Alkaline Battery	1.5 Volts	107525

Power
ACCESSORIES

CyberShield™ DC Power Supplies and ONT for Home and Business — Bulk Cable

The CSTII1000 Cybershield cables are unterminated and used for connecting battery backups to ONTs.

- » Cable type: FTTx
- » Length: 1,000 ft
- » Color: Black
- » Warranty: 3 year

CyberPower®

Mfr. Model #	Description	BSE Part #
CSTII1000	CSTII1000 Cybershield Cables are Unterminated and Used for Connecting Battery Backups to ONTs.	2461555

For all your
NETWORKING & ELECTRONICS NEEDS,
Contact your Border States Account Manager or Call us 1-800-676-5834

INSTALLATION & MRO SUPPLIES

Surge Protectors

Feature built-in automatic shutdown, lifetime warranties, and connected equipment guarantees. Choose the series that best fits your needs: Home Theater, Professional, Essential, and Rackbar™

» Protect home and office computers, electronics, and home theater equipment

» Surge Protection: Diverts excess voltage away from sensitive electronic equipment during an AC power surge or power spike to prevent damage.

» Automatic Shutdown: Protects connected electronics with the integrated circuit breaker which automatically switches off in the event of an overload that exceeds the model's ability to suppress the signal.

» EMI/RFI Noise Filter: Maintains clean power for connected equipment by filtering out electromagnetic and radio frequency interference to improve picture and sound quality.

CyberPower®

Mfr. Model #	Use	Joules	Outlets	Volts	Protection	Breaker	Cord	BSE Part #
6050S	Home Electronics	1500	6	120	RJ11	15A	4'	3264532
CSB606	Home, Office	900	6	125	900J	15A	6'	3320304
CSB604	Home, Office	900	6	125	900J	15A	4'	3144629

CyberShield™ FTTx Systems and Uninterruptible Power Supplies

Keep communications equipment, such as Internet and cable-reliant services, up and running during outages.

» Provides reliable FTTx Telecom solutions including fiber to the premise (FTTP) and fiber to the home (FTTH)

» CyberShield™ Battery Backup power communications equipment

» Telecom Cable Assemblies and Bulk Cables provide connectivity between power supplies and optical network terminals

» Protect sensitive electronics and equipment during power surges and blackouts with an Uninterruptible Power Supply (UPS) system from our extensive line including standby, line-interactive, and double-conversion models, with backup capacities ranging from 350 VA to 10,000 VA

» Key features include sine wave output, energy-saving GreenPower UPS™ design, data-line protection, and power management software

CyberPower®

Mfr. Model #	Description	BSE Part #
CyberShield™ FTTx Systems for Interior Use — Supplies Continuous DC Power to Local Power Network Interface Devices (NID), Cable Telephone Modems, Wireless Base Stations, Fiber to the Home (FTTH), Optical Network Terminals ONT) and Integrated Access Devices — Features High-Function Design, Audible Alarm Signals with Silence Options, Microprocessor Intelligent Control, Telemetry Interface, User-Replaceable Batteries, LED Indicators and Three-Year Warranty		
CBN50U48A-1	48 VDC with Cold Start Functionality, Optional Extendable Runtime. Input Voltage Range: 90–264 VAC, On-Battery Output Voltage: 48 VDC, Rated Power: 50W, Battery: 12V/20Ah.	3513845
CSN27U12V-NA2	12 VDC with Cold Start Functionality, Optional Extendable Runtime. Input Voltage Range: 100–240 VAC (Universal Input), On-Battery Output Voltage: 12 VDC, Rated Power: 27W, Battery: 12V/7.2Ah.	3078914
DTC36U12V-NA3-G	12 VDC with Battery Emergency Functionality. Input Voltage Range: 90-264 VAC, On-Battery Output Voltage: 12 VDC, Rated Power: 36W, Battery: 12V/7.2Ah.	3219922
CyberShield™ FTTx Systems for Exterior Installation — Supplies Continuous DC Power to Local Power Network Interface Devices (NID), Cable Telephone Modems, Wireless Base Stations, Fiber to the Home (FTTH), Optical Network Terminals ONT) and Integrated Access Devices — Features High-Function Design, Audible Alarm Signals with Silence Options, Microprocessor Intelligent Control, Telemetry Interface, User-Replaceable Batteries, LED Indicators and Three-Year Warranty		
CS150U48V3	48 VDC with Cold Start Functionality, Optional Extendable Runtime. Universal Input Voltage: 100–240 VAC, On-Battery Output Voltage: 48 VDC, Outdoor Use: IP X4 Protection Rating, Rated Power: 150W, Battery: 12V/7.2Ah; 2 Strings of 4.	3140640
CSN30C12V-E	12 VDC with Cold Start Functionality, Optional Extendable Runtime. Universal Input Voltage: 100–240 VAC, On-Battery Output Voltage: 12 VDC, Outdoor Use: Type 3R Protection Rating, Rated Power: 30 W, Surge Protection: 6kV, Battery: 12V/7.2Ah.	3513848

UPS Systems

Protect sensitive electronics and equipment during power surges and blackouts.

» Battery backup
» Surge protection
» Standby Topology
» Simulated SineWave
» GreenPower UPS high-efficiency design
» Ultra-quiet
» Transformer-spaced outlets

CyberPower®

Mfr. Model #	Description	BSE Part #
UPS Systems — Provide Battery Backup and Surge Protection with Standby Topology, Simulated Sine-Wave Waveform and Three-Year Warranty, Output: 120 VAC ± 5%, NEMA 5-15P Plug with 5 ft. Cord, USB Communication Ports		
CP550SLG	Capacity: 550 VA / 330 W, Outlets: 8 × NEMA 5-15R, Connected Equipment Guarantee: $100,000	2654157
ST900U	Capacity: 900 VA / 500 W, Outlets: 12 × NEMA 5-15R, 2 USB Charging Ports with 2.1 A Shared Total Output, Management Software: PowerPanel Personal, Connected Equipment Guarantee: $125,000	3545818

SAFETY

JoistMate® Attic Platform

» Secure in place between 16" OC (on center) or 24" joist spacings
» Weighs 10 pounds and holds up to 700 pounds

WILLIAM FRICK & COMPANY™

Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
JOISTMATE-1624	21.5" x 26.5" Platform to Traverse Wooden Attic Beams	2 Per Set	1 Set Per Box	3539057

Tapes, Adhesives & SEALANTS

Scotch® Super 33+ Vinyl Electrical Tape

Long-lasting with superior adhesion and handling in a wide range of temperatures and conditions. Scotch Super 33+ Vinyl Electrical tape provides flexibility and easy handling for all around performance.

» Insulates and protects against abrasion and moisture
» Tape is flame resistant
» UL Listed and CSA Certified
» Suitable for indoor and outdoor use
» Lead free vinyl electrical tape
» Made in the USA

3M

Mfr. Model #	Size	Color	BSE Part #
33+SUPER-1-1/2X36YD	1-1/2" x 36 yds.	Black	788194
33+SUPER-3/4X66FT	3/4 x 66'	Black	114863
35-BLUE-3/4X66FT	3/4 x 66'	Blue	115233
35-GREEN-3/4X66FT	3/4 x 66'	Green	115241
35-RED-3/4X66FT	3/4 x 66'	Red	115226
35-WHITE-3/4X66FT	3/4 x 66'	White	115230
35-YELLOW-3/4X66FT	3/4 x 66'	Yellow	115237

Blackburn® Duct Seal

Seal openings from air, dust or water around EMT or rigid conduit raceway.

» Can be painted immediately after application
» No unpleasant odor
» Contains no asbestos
» Workable temperature range: - 20° F to 212° F
» Service temperature range: -40° F to 250° F
» Not to be used for electrical insulation applications

ABB

Mfr. Model #	Description	BSE Part #
DX-1	Blackburn Duct Seal, 1 lb. Slug	577994

CRC RTV Clear Silicone Sealant

For general purpose sealing, bonding and water-proofing. Clear formulation forms a barely visible water-tight seal.

» Economical for large jobs
» Convenient screw-on nozzle
» Plastic safe
» Meets requirements of Mil-A 46106 Type 1
» Meets NSF/ANSI Standard 51- Food Equipment Materials

Mfr. Model #	Fully Dry Time	Dry Time- Tack Free	Elongation Rate	Flash Point	Working Temperature	Shelf Life	BSE Part #
14073	24 hours	10 minutes	500%	>212°F	-70 to 400°F	5 Years	900698

RTV Silicon Sealant

» Single component, 100% silicone sealant that is ideal for interior and exterior sealing and caulking
» Adheres to metal, glass, marble, ceramic tile, porcelain, painted surfaces, and many more
» Can be used as an adhesive for bonding surfaces together and will not yellow or discolor in exterior applications

Mfr. Model #	Description	BSE Part #
RTV8	8 oz. RTV Silicon Sealant Clear — Pressurized Can	1349230

Handi-Foam Expanding Sealant

» Moisture-cure polyurethane foam
» Used to seal, bond, retrofit, insulate, and deaden sound in electrical, plumbing, air-conditioning and refrigeration applications
» Specifically designed to be dispensed as a bead for filling cracks

Mfr. Model #	Description	BSE Part #
HF340	12 oz. Handi-Foam Expanding Sealant	115005

Duct Seal

» Seals around junction boxes, flashings and service entrances
» Permanently soft, non-toxic compound can be painted immediately after application
» Won't adversely affect other plastic materials or corrode metals

Mfr. Model #	Description	Quantity	BSE Part #
31-601	1 lb. Block	Carton of 10	128048

Heavy Duty Gray CPVC Cement

» Heavy-bodied gray cement for use on all schedules and classes of CPVC pipe and fittings up to 12" diameter with interference fit
» Lo-V.O.C. Solvent Cement meets California South Coast Air Quality Management District (SCAQMD) 1168/316A or BAAQMD Method 40 and various environmental requirements
» For commercial hot and cold water systems up to 200°F / 93°C
» Recommended application temperature 40°F to 110°F / 4°C to 43°C
» Approved for Corzan®* CPVC Piping Systems
» Meets ASTM F493

Mfr. Model #	Size	Quantity	Weight	BSE Part #
31036	16 oz.	24	25 lbs.	1834366

AFT™ Spray Foam Sealant

For sealing conduits and risers from moisture, gases, and rodents.

» Quick Installation: 2-minute application time or less
» Multiple-Use Can: Creates numerous seals in all types of ducts
» Reliable: Holds 10 feet of continuous water head pressure
» Durable: Withstands cold temperature applications
» Removable: Product can easily be removed to replace cable
» Creates airtight and watertight seal
» 6 applications per can (4 inch conduit)
» Flexible nozzle available for easy installation

Mfr. Model #	Description	Units/ Case	BSE Part #
AFT-16P4	Polywater® AFT™ Aerosol Foam Sealant (4/CS)	4	3436779
AFT-FAE10	Polywater® AFT™ Flexible Nozzles	1	3503797

Bonduit® Conduit Adhesive

Strong, watertight and airtight adhesive for HDPE conduit.

» Versatile: Bonds HDPE to PVC , rigid steel, and fiberglass conduits and fittings

» Superior: Stronger pullout strength than mechanical couplings

» Durable: Bonds with high strength within an hour

» Easy to Use: Requires no special training

» Convenient Kits: Contains all application components required for a quick installation

![Polywater logo]

Mfr. Model #	Description	Units/ Case	BSE Part #
BT-KIT	BonDuit® Conduit Adhesive Kit	1	1548686
BT-KITB6	BonDuit® Adhesive Bulk Kit	1	1548694
BT-KITB6G	BonDuit® Adhesive Bulk Kit w/Dispensing Tool	1	1548693
BT-KITG	BonDuit® Conduit Adhesive Kit w/Dispensing Tool	1	1548695

FST™ Foam Duct Sealant

For sealing conduits and risers from moisture, gases, and rodents.

» Meets NEC Code Requirements: 2011, 2014, 2017 NEC Articles 225.7, 230.8, 300.5 (G), 300.7 (A) on Raceway Seals, and 501.15 (B)(2)

» Reliable: Holds 22 feet of water head pressure and up to 90-foot surges

» Seals Multiple Conduits: Can seal conduits of all sizes and is reenterable

» Compatible: Use with a wide range of cable jacket and conduit materials

» Solves Critical Application: Class 1 Div 2 locations and areas subject to temperature variations

![Polywater logo]

Mfr. Model #	Description	Units/ Case	BSE Part #
FST-250	8.5-Oz Foam Duct Sealant Cartridge (Caulk Style)	12	2971156
FST-250KIT	8.5-Oz Foam Duct Sealant Kit Bulk 6-Pack	6	2470667
FST-250KIT1	8.5-Oz Foam Duct Sealant Kit Single	1	2470328

PedFloor™ Pedestal Sealant Foam Barrier

Creates a hard foam barrier to prevent pest infestation.

» Deterrent: Keeps rodents, snakes, and insects from entering the pedestal or cabinet

» Strong: Structural foam matrix creates a strong seal

» Complete Seal: Flows and self-levels before expansion to prevent ground entry

» Versatile: Can be used as a suspended floor or directly on the ground

» Protects: Cured product offers permanent protection throught weather extremes

![Polywater logo]

Mfr. Model #	Description	Units/ Case	BSE Part #
PF-1	PedFloor™ Sealant Burst Pack for 1 Square Foot	2	3002882
PF-2	PedFloor™ Sealant Burst Pack for 2 Square Feet	2	3535151

Nozzles

Nozzles for Polywater sealants and adhesives.

![Polywater logo]

Mfr. Model #	Description	Units/ Case	BSE Part #
AFT-SAE10	Polywater® AFT™ Standard Nozzles	1	3535149
MXR-12T-10	Mixing Nozzle 10-Pak for BonDuit® & Pad N Pole™	1	3261842
MXR-30T-10	Mixing Nozzle 10-Pak for FST™ & UPR-PR™	1	3223516

Contact Border States for hot line tools
MAINTENANCE PRODUCTS

SOLUTIONS

ZipSeal™ Duct Sealant

A closed-cell foam duct sealing system for conduits up to 2".

» Protects: Keeps water, gases, and rodents out of conduits
» Quick Installation: Installs in just 45 seconds
» Reenterable: Installed ZipSeal is quickly removed and resealed if necessary
» Multiple Seals: One kit seals up to 5 2 inch conduits
» Meets NEC Code Requirements: 2014 NEC Articles 225.27, 230.8, 300.5 (G), 300.7 (A) on Raceway Seals, 501.15 (b)(2)

Polywater®

Mfr. Model #	Description	Units/ Case	BSE Part #
ZIP-50KIT1	ZipSeal™ Duct Block (single kit)	1	3535154
ZIP-50KIT1G	ZipSeal™ Duct Block (single kit with tool)	1	3535155
ZIP-50KITB6	ZipSeal™ Duct Block (bulk kit)	1	3535156

Drain N' Seal® Pedestal Sealing Foam

Specifically designed for fiber pedestals to inhibit ground moisture penetration, Drain N' Seal® products minimize damage caused by condensation and water.

» Ideal for fiber pedestals and vaults
» Economical and easy to use
» Controls ground moisture penetration
» Re-enterable
» Provides a clean environment for open architecture fiber closure
» Convenient packaging reduces storage, transportation and waste costs
» RUS Listed
» Keeps rodents and pests out

Uraseal®

Mfr. Model #	Quantity (Grams)	Carton Quantity	Carton Weight	BSE Part #
URF110	110 Gram Pedestal Foam	32	11 lbs.	3160298
URF220	220 Gram Pedestal Foam	24	15 lbs.	3160299
URF660	660 Gram Pedestal Foam	12	20 lbs.	3160300

DATACOMM

Coax Compression Tools for F and BNC Compression Connectors

USA made compression tools designed for professional use and reliability.

30-793 Compresses ALL IDEAL® compression connectors

» Compresses BNC, F-Type, RG11-F, RCA, 90°/Right Angle connectors on to coax
» Universal design with spin knob and adjustable post height works with most non-IDEAL compression connectors
» Permanent connection so your connector never comes loose
» 30-793 has aluminum die cast body - for Pro's who work regularly with coax compression

33-632 LinearX®3 Compression tool Compresses F/BNC/RCA connectors

» Adjustable post for different length/style connectors
» Durable & rugged zinc die-cast body with protective powder coated paint finish
» 33-632 is for users who primarily work with F connectors or do occasional coax work

IDEAL®

Mfr. Model #	Description	Compresses	Color	Stroke Length	Adjustable	Body Material	Compression Levels	BSE Part #
30-793	OmniSeal™ Pro XL Coax Compression Tool	F/BNC/RCA/RG-11F	Black	21mm	Yes	Aluminum	3	2106558
33-632	LinearX® 3 Coax Compression Tool	F/BNC/RCA	Blue	21mm	Yes	Zinc	1	2978325

Modular Plug Crimping Tools for Feed-Thru and Standard RJ-45 connectors

30-495 FT-45™ Crimps all IDEAL® RJ-45 modular plugs

» FT-45™ Crimp Tool crimps feed-thru, standard and shielded connectors
» Compact design for RJ-45's from CAT5e to CAT6A
» Long lasting blade, >2000 cuts for Feed-Thru connectors
» Provides a flush cut of conductors for Feed-Thru

30-496 Telemaster Crimp tool crimps Standard RJ-45 (8P8C) and RJ-11/12 (6P6C/6P4C) Plugs

» Not for use with Feed-Thru connectors
» Cable cutter and jack stripper built in
» For more traditional data and phone terminations up to CAT6

IDEAL®

Mfr. Model #	Description	Crimps	Cable Types	Feed-Thru Compatible	Handles Conductors >0.041"	Replaceable Blade	BSE Part #
30-495	FT-45™ Feed-Thru Modular Plug Crimp Tool	RJ-45	CAT5e/6/6A	Yes	Yes	Yes	3337725
30-496	Telemaster™ Modular Plug Crimp Tool	RJ/11/12/45	CAT3/5e/6	No	No	Yes	127963

Punchmaster™ II Impact Punchdown Tool for 110 and 66

USA made tool provides durability for repeated use and terminations.

» Includes both full 110 and 66 blades with cut./ no-cut tips
» Adjustable high/low actuation setting accommodates termination requirements
» Turn-Lock™ Style blade holding design
» Impact-absorbing cushioned grip reduces operator stress for high volume installers
» 5 blade types are available as replacements
» For data and phone punchdowns up to CAT6A conductor diameters
» Orange side denotes cut side of tool

Mfr. Model #	Description	Blade storage	Color	# Blades Included	# impact Settings	BSE Part #
35-485	Punchmaster™ II Impact Punchdown Tool	Yes	Orange/ Blue	2	2	127895

Data T®-Cutter cable cutter and PrepPRO® Coax/UTP Cable Stripper

Provides compact coax cutting and simple 1/4" x 1/4" coax preparation.

45-074 cutter is USA made with steel blades for cutting RG-6/59 to RG-11 coax

» Compact size is smaller and lighter than traditional 9" cable cutters
» Locking latch keeps tool closed in pouch
» Curved blades cut round copper cables and helps maintain cable geometry

45-605 PrepPRO is USA made for preparing coax cables for compression connectors

» Pre-set 1/4" x 1/4" spacing requires no user adjustments — grey cartridge
» Auto adjusting blade depth for 6/6Quad/59 coax cable
» Also strips RG-59/6 Plenum cables
» Perfect for all IDEAL RG-6 or RG-59 compression connectors
» Blue cartridge is for CAT5e/6 jacket stripping

Mfr. Model #	Description	Cable Type	# of Cartridges	Material	BSE Part #
45-074	Data T®-Cutter	Coax/ Copper cables	N/A	Steel	316247
45-605	PrepPRO® Coax/UTP Cable Stripper	Coax/UTP/ STP	2	Plastic	2919056

Test-Tone-Trace Kit and Pro Tone and Probe

Essential basic datacomm testers for termination verification and locating cables.

33-864 Pro Tone and Probe Kit includes case and accessories

» Identifies and traces wire or cables within a group
» Detects and audibly amplifies analog tone generation
» Emits three tone patterns
» F-Connector & RJ-11/12 interface for toning twisted pair and copper cables

33-866 Test-Tone-Trace Kit adds Wiremapping feature set

» Kit includes the VDV (33-856), Amplifier Probe (62-164), carrying case and accessories
» Tests and traces coax, twisted pair and telephone cables in one simple kit
» Identifies Open/Short/ Miswire/Split Pair/Pass/ Fail on LCD screen
» Great starter kit to cover basic testing in low-voltage

Mfr. Model #	Description	Wiremap Function	Display	BSE Part #
33-864	Pro Tone and Probe Kit	No	None	1182421
33-866	Test-Tone-Trace VDV Test Kit	Yes	LCD	2796881

VDV Multimedia WireMapper and Cable Tester

Basic, easy to use tester to verify correct conductor termination in RJ-45/RJ-11 and Coax cables.

» Data — tests 8 position 8 contact CAT 3/5e/6/6a shielded and unshielded cable testing for wiremap/continuity to TIA 568A/B standards
» Video — tests coax cable for opens and shorts via F-connector interface
» Voice — tests 2 or 3 pair, 6-position RJ-11/12 phone cables for wiremap/ continuity
» Wiremap tests for opens, shorts, miswires, reversals and split pairs
» Internal tone generator: Tone by pin/pair/entire cable with four different tones making fault isolation easier
» Main remote stores in base of tester
» LCD display with PASS or ERROR indicator displayed after each test

Mfr. Model #	Description	BSE Part #
33-856	VDV Multimedia Voice/Data/Video Wiremap Tester	1533264

TOOLS & SAFETY

Hand
TOOLS

25AC Staple Gun

» Model 25AC IS designed to drive the specially configured staples to a pre-determined depth in most substrates, thus making it virtually impossible for the Broadband wires to be crushed.

ACME
STAPLE COMPANY, INC.
Established in 1894

Mfr. Model #	Description	BSE Part #
25AC	For Use With 18/3 AWG Bell Wire, CAT 5e, 6 Cable and Small Diameter RG6 Coax Cable	1704432
Staples		
652166	Unpainted Galvanized Steel, 1/4" Crown, 19/32" Leg Length	1704433

Magnetic Hex Tool

» Designed to drive hex head fasteners and provide additional reach and easy bit changing when needed

» Ideal for high torque applications they feature an industrial-strength magnet for maximum fastener retention.

Dottie

Mfr. Model #	Description	BSE Part #
MT104	5/16 x 4" Magnetic Hex Tool	209019

D-Snip Cable Scissors

» High quality forged steel construction for strength and durability

» File and scraper on both blades for cleaning wire

» Notched blade for stripping 19 and 23 gauge wire

» Cuts up to 16 gauge solid and 12 gauge stranded wire

» Serrated blade for non slip wire cutting

FLUKE *networks*

Mfr. Model #	Description	BSE Part #
44300000	D-Snip Cable Scissors	984614

Can Wrench with Hex Head Sockets

» Two hex head sockets (7/16 inch and 3/8 inch)

» Color-coded socket ends for quick size identification

» Wrench body constructed of tough, impact resistant, and abrasion resistant material

» Socket ends guaranteed not to split or break up to a maximum torque of 45 ft. lbs.

» Nylon body ergonomically designed to mold to user

FLUKE *networks*

Mfr. Model #	Description	BSE Part #
44007000	Can Wrench with Hex Head Sockets	140561

Insulated Pocket Probe Pic Tool

» Trace and pull wires with pic end

» Kynar insulated tip protects against shorting adjacent components

» Compact size

FLUKE *networks*

Mfr. Model #	Description	BSE Part #
44600000	Insulated Pocket Probe Pic Tool	140572

Electrician's Scissors for Copper and Data Applications

Designed for use in telephone and electrical service applications.

» Cut up to 16 AWG solid and 12 AWG stranded wire

» Serrated surface on back blade edge cleans wire and straightens twisted pair conductors

» Stripping notches strip 19 and 23 AWG wire

» Chrome over nickel plating

» Made in Italy

IDEAL®

Mfr. Model #	Description	Length	BSE Part #
35-088	Electrician's Scissors w/ Strip Notch, 5"	5.5"	642847

SOLUTIONS

High-Leverage Cable Cutter

» High-leverage design cable cutters for exceptional cutting capability of 4/0 aluminum, 2/0 soft copper, 100-pair 24 AWG communications cable
» Cable Cutters feature precision, one-hand shearing action
» Cable-gripping shear-type jaws
» Beveled jaw tips provide proper mating and shearing action, which protects leading jaw edges
» Through-hardened (not case-hardened) for longer-lasting cutting surfaces
» Hot-riveted joint ensures smooth action and no handle wobble
» Custom US-made tool steel
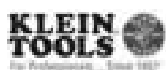
Mfr. Model #	Description	BSE Part #
63050	High-Leverage Cable Cutter	128669

Katapult® Wire Stripper and Cutter for Solid and Stranded Wire

» Wire Stripper and Cutter cuts and strips 8-20 AWG solid and 10-22 AWG stranded wire with ease
» Compound action stripping: grip and strip via single-action squeezing motion
» Precision machined stripping holes easily remove insulation without damaging the wire
» Removes up to 1-Inch (25 mm) in length of the insulation layer (jacket layer) in a single step
» Tension loaded wire-grip gently holds the cable while retaining cable geometry
» Cast alloy chassis with heavy-duty Ecoat finish for corrosion resistance and durability
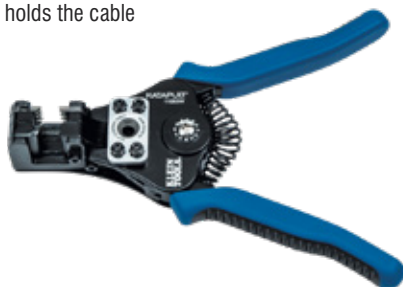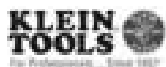
Mfr. Model #	Description	BSE Part #
11063W	Katapult® Wire Stripper and Cutter for Solid and Stranded Wire	2990611

Carbon Steel Hawkbill Pocket Knife

» Extra-large 2-5/8-Inch (67 mm) long curved hawkbill slitting-blade
» Ideal for heavy-duty line work
» Woodgrain plastic handle
» Blade locks open
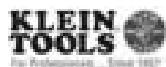
Mfr. Model #	Description	BSE Part #
1550-4	Pocket Knife, Carbon Steel Hawkbill Slitting Blade	127624

6-1/2-Inch Cable Splicer's Knife

» Special-purpose short blade with comfortable, full-sized, heavy-duty handle
» Coping-type blade made of the finest cutlery steel, tough and carefully tempered to hold its edge
» Handle is textured for comfort and firm grip
» Hang hole for easy storage and portability
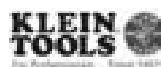
Mfr. Model #	Description	BSE Part #
44200	Cable Splicer's Knife, 6-1/2-Inch	127596

Cable Skinning Utility Knife w/Replaceable Blade

» This folding utility knife features a heavy-duty hawkbill blade that is easily replaceable to eliminate the need for sharpening
» Handle has rubberized grip and release lever for lockback mechanism
» Replaceable blade is held securely by a captive screw
» Thumb stud for easy opening and the pocket clip is easily accessible
» Replacement blades sold separately: a 440A stainless steel blade (Cat. No. 44219) and a versatile, straight coping blade (Cat. No. 44138)
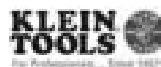
Mfr. Model #	Description	BSE Part #	Repl Blade Mfr. Model #	Repl Blade BSE Part #
44218	Cable Skinning Utility Knife w/Replaceable Blade	3341017	44219	3341018

Wood Folding Rule

» Strong, 6-foot (1.83 m) long hardwood rules with clear abrasion-resistant coating
» Black markings on yellow, with red stud center markings every 16 inches
» Measurements are marked on both sides and both edges, graduated to 1/16-Inch
» Riveted lock joints are designed for long wear and maintained accuracy
» Engraved graduations on both sides
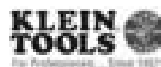
Mfr. Model #	Description	BSE Part #
901-6	Wood Folding Rule	129773

TOOLS & SAFETY

16-Foot Magnetic Double-Hook Tape Measure

» Tape Measure with 13-foot standout of wide, tough and durable blade

» Uncluttered, easy-to-read bold lines marked on blade every 1/8 inch

» Heavy-duty, tough, durable nylon-coating protects blade printing and delivers longer blade life

» Retraction speed brake controls blade speed and protects fingers from touching blade

» Measurement scale printed on front and back sides of blade for versatility to address different types of measurements

» Double hook can secure tape to items such as studs, conduit, pipes, etc. on front or back side of blade to measure with either measurement scale

» Strong magnet on hook attaches to ferromagnetic objects such as steel studs, doors, panels, conduit, etc. for easy measuring

KLEIN TOOLS

Mfr. Model #	Description	BSE Part #
9216	Tape Measure, 16-Foot Magnetic Double-Hook	2743642

3/8" and 7/16" Hex Nut Can Wrench

» Two tools in one saves space in your pouch

» One end opens telephone box fasteners, the other end tightens nuts on binding-post terminals

» The 7/16-Inch socket has a black finish and the 3/8-Inch socket has a silver finish

» Sockets are 1-1/4-Inch (32 mm) deep to fit over long binding posts and are thin-walled for easy access into tight areas

» Socket ends are color-coded for quick identification of socket sizes

» Hex-socket design enables using a wrench to obtain extra torque

» High-impact, break-resistant handle for long and dependable service

KLEIN TOOLS
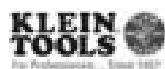
Mfr. Model #	Description	BSE Part #
68005	Can Wrench, 3/8" and 7/16" Hex Nut	655486

1/2 x 9/16-Inch Ratcheting Box Wrench

» Reverse ratcheting action by simply turning wrench over

» Laminated construction for greater strength

» Different size at each end

» Chrome-plated finish for rust resistance

KLEIN TOOLS
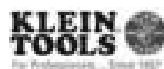
Mfr. Model #	Description	BSE Part #
68202	Ratcheting Box Wrench 1/2 x 9/16-Inch	128984

8-Inch Heavy-Duty High Leverage Diagonal Cutting Pliers

» Diagonal Cutters cut ACSR, screws, nails and most hardened wire

» Pliers have high-leverage design, with rivet closer to the cutting edge for 36-Percent greater cutting power than other plier designs

» Short jaws and beveled cutting edges permit close cutting of wire

» Induction hardened cutting knives for long life

» Hot-riveted joint ensures smooth action and no handle wobble

» Plastic-dipped handles for comfort and ease of identification

» Custom, US-made tool steel

KLEIN TOOLS
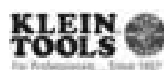
Mfr. Model #	Description	BSE Part #
D2000-28	Diagonal Cutting Pliers, Heavy-Duty, High-Leverage, 8-Inch	129223

6-Inch Long Nose Side Cutters

» Induction hardened cutting knives for long life

» Knurled jaws for sure wrapping and looping

» Slim head design for working in confined areas

» Hot-riveted joint ensures smooth action and no handle wobble

» Curved handles provide greater tool control

» Plastic-dipped handles for comfort and ease of identification

» Custom, US-made tool steel

KLEIN TOOLS

Mfr. Model #	Description	BSE Part #
D203-6	Long Nose Side-Cutters, 6-Inch	129121

TOOLS & SAFETY

Journeyman™ Pliers
» Cuts ACSR, screws, nails and most hardened wire
» Three styles — Diagonal Cutters, Side Cutters or Lineman's
» High-leverage design — Rivet is closer to the cutting edge for 46-percent greater cutting and gripping power than other plier designs
» Induction hardened cutting knives for long life
» Hot-riveted joint ensures smooth action and no handle wobble
» Streamlined design with sure-gripping, cross-hatched knurled jaws
» Unique handle tempering helps absorb the ''snap'' when cutting wire
» Dual-material Journeyman™ handles provide a better grip without sacrificing tool strength and durability
» Hard, black material for toughness and durability
» Soft material on outer surface for comfort and a firm grip
» Color-coded handles allow quick identification of the tool
» Features combination polished and black-oxide finish
» Custom, US-made tool steel
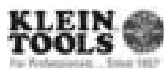
Mfr. Model #	Description	BSE Part #
J2000-28	Diagonal Cutting Pliers, Heavy-Duty, 8-Inch	1177132
J2000-9NE	Lineman's Pliers, 9-Inch, Journeyman Handle	1175070
J213-9NE	9-Inch Journeyman™ Pliers Side Cutting	1175068

7-Piece Nut Driver Set
» Tool Set has general-purpose selection of the most frequently used nut drivers
» Nut Drivers full hollow 3-Inch shafts facilitate work on long bolt applications
» Cushion Grip handles allow for greater torque and comfort
» Tip-Ident® quickly identifies nut driver hex orientation and size by colorcoding the handle ends so you can easily engage the nut driver with the fastener
» Internal flanges provide solid, twist-resistant shaft anchor
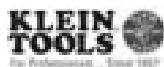
Mfr. Model #	Description	BSE Part #
631	Nut Driver Set, 3-Inch Shafts, Cushion Grip, 7-Piece	128718

3/16-Inch Cabinet Tip Screwdriver
» Precision-machined tip provides accurate fit and torque without slippage
» Tip-Ident® quickly identifies the screwdriver type and tip orientation
» Cushion-Grip handle for greater torque and comfort
» Premium chrome-plated for smooth feel and corrosion resistance
» Internal flanges inside handle provide solid, twist-resistant blade anchor
» Special heat-treated shafts
» Meets or exceeds applicable ASME / ANSI specifications
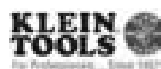
Mfr. Model #	Description	BSE Part #
601-3	3/16-Inch Cabinet Tip Screwdriver 3-Inch Shank	129436

Phillips Screwdrivers
» Precision machined Phillips tip provides a more consistent geometric symmetry than conventional Phillips screwdrivers to accurately fit and torque without slippage
» Tip-Ident® quickly identifies the screwdriver type and tip orientation
» Cushion-Grip handle for greater torque and comfort
» Premium chrome-plated for smooth feel and corrosion resistance
» Internal flanges inside handle provide solid, twist-resistant blade anchor
» Special heat-treated shafts
» Meets or exceeds applicable ASME / ANSI specifications
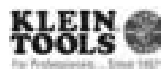
Mfr. Model #	Description	BSE Part #
603-3	#1 Phillips Screwdriver, 3" Round Shank	129482
603-4	#2 Phillips Screwdriver 4" Round Shank	129485

1/4-Inch Cabinet Tip Screwdriver
» Narrow cabinet tip permits blade access where space is limited
» Cushion-Grip handle for greater torque and comfort
» Premium chrome-plated for smooth feel and corrosion resistance
» Internal flanges inside handle provide solid, twist-resistant blade anchor
» Special heat-treated shafts
» Precision-machined tip for exact fit
» Meets or exceeds applicable ASME / ANSI specifications
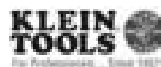
Mfr. Model #	Description	BSE Part #
605-4	1/4-Inch Cabinet Tip Screwdriver 4-Inch Shank	129501

TOOLS & SAFETY

4-Piece Mini Slotted and Phillips Screwdriver Set

» Screwdriver Set includes one Phillips-tip, one keystone-tip and two cabinet-tip screwdrivers
» Mini Cushion-Grip handles for superior comfort and grip
» Tip-Ident® quickly identifies the type of screwdriver and tip orientation
» Precision tips for an exact fit and rigorous applications
» Premium chrome-plated shafts for corrosion resistance
» Meets or exceeds applicable ASME / ANSI specifications

KLEIN TOOLS
For Professionals... Since 1857
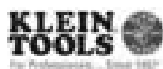
Mfr. Model #	Description	BSE Part #
85484	Screwdriver Set, Mini Slotted and Phillips, 4-Piece	2023077

Utility Knives

Durable construction and comfortable grip for extended use.

» Extremely durable stainless steel nose — One piece titanium coated nose resists wear and eliminates spreading
» Longest lasting utility blades — Three shatterproof titanium edge blades included
» Easy blade change — Quick blade release allows rotation or changing of blade without opening handle
» Internal blade storage — Retractable knife stores up to five blades
» Fixed knife stores up to ten blades
» No tool needed to open

LENOX

Mfr. Model #	Description	BSE Part #
20353-SSRK1	LENOX Gold® Quick Change Retractable Knife	1578767

Utility Blades

Titanium edge for maximum blade life.

» Lasts longer — High speed steel edge with titanium coating keeps blades cutting after others have quit
» Shatterproof — Patented bi-metal construction allows blades to bend and flex without breaking
» Makes deeper cuts — Four notch design allows blade to extend further
» Fits all standard utility knives
» Cuts the toughest materials — Dry wall, insulation, flooring, roofing and more

LENOX

Mfr. Model #	Description	BSE Part #
20350GOLD5C	5-Pack	1572894
20351GOLD50D	50-Pack	1572893
20352GOLD100D	100-Pack	1572892

Pumps and Tools

» LP-D5 Drill-powered Pump for 5-gallon/18.9 liter pail, or 55-gallon/209 liter drum
» Includes 2 applicators
» Requires 1/2" drill (not included)

Polywater

Mfr. Model #	Description	Units/ Case	BSE Part #
LP-D5	Polywater® Drill-Operated Lubricant Pump	1	1408973
TOOL-250	Applicator Gun for FST, UPR, & SDP Sealants	1	2971182
TOOL-50-11	Applicator Gun for BT, EPCT, & SDP Sealants	1	2990618

Streamlight Headlamps, Penlights and Flashlights

Septor® Headlamp

» Meets needs for close work where seeing details is critical
» Pushbutton switch is easy to use when wearing gloves
» Three lighting modes
» Maximum Lumens: 120
» Beam Distance: 60 meters
» Candela Levels: 900 (High), 375 (Med), 100 (Low)
» Runtime Levels: 3.5 Hrs (High), 10 Hrs (Med), 55 Hrs (Low)

Stylus® Pro Penlight

» With pushbutton tail switch for momentary or constant light
» Maximum Lumens: 100
» Beam Distance: 62 meters
» Candela Levels: 950 (High), 73 (Low)
» Runtime Levels: 8 Hrs

Microstream® Pocket Flashlight

» Clips to pocket or onto brim of hat
» Maximum Lumens: 45
» Beam Distance: 41 meters
» Candela Levels: 420
» Runtime Levels: 2.25 Hrs

STREAMLIGHT

Mfr. Model #	Description	Material	Color	Batteries	BSE Part #
61052	Septor Headlamp	Thermoplastic	Yellow	3 AAA Alkaline	1720932
66118	Stylus Pro Penlight	Aluminum	Black	2 AAA Alkaline	2323131
66318	Microstream Flashlight	Aluminum	Black	1 AAA Alkaline	2323129

TOOLS & SAFETY

RB-2 Gun & Clip System for Series 6 Standard & Tri Shield

The RB Clip Gun System is the only " hand tool applied" cable fastening system that ensures a perfect cable installation.

» Eliminates staple nicks, pinching and compression
» Eliminates accidental damage from hammer blows and kinked staples
» For use installing cable onto wooden surfaces
» Lightweight clip guns are easy to load and shoot
» Tool refurbishments are complimentary

Telecrafter Products
Designing, manufacturing, and delivering quality drop supplies

Mfr. Model #	Description	Quantity	Color	BSE Part #
RB-2	RB-2 Cable Clip Gun for Standard RG6 & Tri Shield	Each	N/A	3284840
06ES	Series 6 Standard & Tri-Shield Clips	Box of 400	Black	3293150

Linemen's
TOOLS

Titanium Pole Climbers

» Features 21391 nylon foot straps
» 350 lbs. weight capacity

BUCKINGHAM BUCK 1896

Mfr. Model #	Material	Sleeves	Width	BSE Part #
TB94089A	Titanium	16.25"–18.75" Adjustable	4.5"	2730388

Cushion Wrap Pad With Cinch Loop and Angled Insert for Titanium/Steel Climbers

» 4" angled design
» Cinch Loop for easy adjustment and tight fit
» Metal insert designed to keep the climber shank stationary to reduce chafing to the leg
» 3/4" cushion padding for comfort
» Maximum adjustability
» Rolled edge to prevent chafing
» Compatible with Buckingham titanium & steel climbers

BUCKINGHAM BUCK 1896

Mfr. Model #	Material	Closure Type	Width	Height	Weight	BSE Part #
3502C	Leather/Felt	Hook & Loop	4"	7.5"	1.5 lbs.	1968681

Climber Footplate

Two footplates, one with a rubber sole that faces down, fasten together on the climber stirrup with two screws. Not for use with aluminum climbers.

» Great for those new to climbing or at a training school putting in long hours on their hooks
» Very popular amongst arborists on the West Coast
» Perfect addition for those bigger in stature as the climber footplate distributes weight more evenly across your foot instead of only on the balls of your feet

BUCKINGHAM BUCK 1896

Mfr. Model #	Material	Length	Width	Weight	BSE Part #
35033	Steel	9"	3.5"	2.5 lbs.	3246659

Long Cover Hook

» Meets or exceeds ANSI / SCTE 77 Tier Ratings
» High strength and durability
» Cost effective
» Nonconductive and nonflammable
» Stable under freeze / thaw conditions
» Impact resistant
» All hardware is hot dip galvanized or stainless steel
» Custom logos and colors available
» Polymer materials do not rust or corrode

HUBBELL

Mfr. Model #	Description	Size	Material	BSE Part #
C082908	Long Cover Hook	27"	Electroplated	228796

Bucket Hook

» Durable impact resistant construction
» Hangs aprons, oval bags, and other storage solutions
» Durable polymer
» Compatible with Milwaukee Tool 10,000PSI hydraulic pump
» Survives all weather
» Fits standard eyelets on tool aprons and bags
» 100lb weight capacity
» Secure fit

Milwaukee

Mfr. Model #	Size	BSE Part #
42-22-8293	3"	3535018

Locating
SUPPLIES

Vinyl Caution Flags

» Standard vinyl stake flags measure 4" x 5" and are brightly colored for long-distance visibility

» Used to clearly mark landscaping, underground utilities, sewers, boundaries, surveying, and more

BLACKBURN
MARKING FLAGS & MARKING PRODUCTS

Mfr. Model #	Color	Length	BSE Part #
450W-BLUE	Blue	30"	3303247
450W-ORANGE	Orange	30"	3222082
450W-RED	Red	30"	1241536
450W-WHITE	White	30"	2104367

Quik-Mark® Inverted Marking Paints

One-coat coverage on concrete, pavement, gravel, grass, brick, asphalt, athletic fields, utility, excavation, ground surveying and construction marking. Spray-Thru™ cap allows for inverted painting ease.

» High-solids formulation for bold, bright, visible markings

» Fast-drying formula penetrates and adheres to hot and cold surfaces

» Convenient Spray-Thru™ cap

» Non-clogging spray tip

KRYLON
INDUSTRIAL

Mfr. Model #	Color	Type	Size	BSE Part #
A03900007	Utility White	Solvent-Based	17 oz.	1477003
A03622007	Fluorescent Hot Pink	Solvent-Based	17 oz.	2747037
A03700004	Fluorescent Orange	Water-Based	17 oz.	2652452
A03911004	Fluorescent Pink	Water-Based	12 oz.	1720520

TriView Test Station/Locate Marker

Marker post with locating capability.

» Triangular shaped Test Station marker with Warning message decals on each side and slide-off top cap

» Includes Grounded Locate Plate on terminal board for easy locating

» Made of engineered UV resistant thermoplastic that resists fading

» Will rebound if hit by cars, trucks, etc

» 10 year warranty against significant fading

» Other lengths available in 6" increments up to 90" long

Rhino
MARKING & PROTECTION SYSTEMS

Mfr. Model #	Description	BSE Part #
TVTI42OB-EM6300	42" Locate Marker with Grounded Locate Plate	3012256

6FT TestPost®

» 5 standard terminals

» Orange cap with black molded-in graphics

» Includes anchor

WILLIAM FRICK & COMPANY
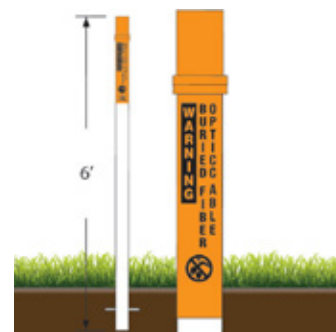
Mfr. Model #	Description	Minimum Order	Packaging	BSE Part #
TSP6-FOC	6' Test Station Marker Post	25	Pallet	3539056

Ball Markers can be found on
PAGE 27

TOOLS & SAFETY

SOLUTIONS

LOCATORS

3M™ Dynatel™ Cable/Pipe Locator 2200 and 2200M Series

Offering a broad feature set with advanced digital processing, the 3M™ Dynatel™ Locators 2200 and 2200M Series combine simple interfaces with precision locating capabilities.

» Four active trace frequencies which can be used individually or simultaneously to compensate for varying field conditions. The receiver incorporates passive power and auxiliary frequencies that do not require the use of the transmitter

» Graphic display to distinguish between targeted cable and other cables in congested area

» Four modes of operation — dual peak, dual null, differential and special peak — for accurate locates, even in the most challenging field conditions

» Direct connect cable with small clips on both models

» Four active frequencies

» 3" Dyna-coupler

Mfr. Model #	Locate Capability	EMS Frequencies	Transmitter Output	GPS Compatible	BSE Part #
2273M-ID/ UC5W-RT	Cable/Pipe/Fault/ Electronic Marker	8	5	Yes	1721344
2273-U5T3/A	Cable/Pipe/Fault	—	5	No	1680456

SAFETY

Wasp & Hornet Killer PLUS™ Insecticide

Fast acting, high strength insecticide knocks down and kills wasps, hornets, fire ants, scorpions and black widow spiders on contact.

» Ergonomic trigger provides control even with gloved hands

» Safe on most plastics

» Extension tube doubles as a locking mechanism to prevent accidental spray of product

» High dielectric strength of 47,600 volts

» Safety Data Label (S.D.[L.]® right on the can- a CRC exclusive

» Contains no chlorinated solvents

» Accurate spray up to 20' away will drench harmful insects and their nests

Mfr. Model #	Appearance	Odor	Residue	Flash Point	Shelf Life	VOC %	BSE Part #
14010	Clear liquid	Petroleum	Yes	205°F	10 years	1.4%	117970

Uvex Genesis® Safety Glasses

Engineered to deliver on the best all-day comfort, protection and style.

» 3/4" frame with comfort brow for all day wear and performance

» Polycarbonate lens, premium HydroShield® Anti-Fog coating

» Ratchet, adjustable temples and flexible nose "fingers" using MMT-Multi Material Technology®

» Choice of lens tints

» Economical lens replacement system and lifetime frame guarantee

» Made in the USA

Mfr. Model #	Frame Color	Material	Lens Coating	Lens Color	BSE Part #
S3200X	Black	Polycarbonate	Uvextreme® Anti-Fog	Clear	1720764
S3201X	Black	Polycarbonate	Anti-Fog	Espresso	1720765
S3202	Black	Polycarbonate	Ultra-Dura Anti-Scratch	Amber	1720769

G-Tek® GP™ Economy Gloves

» Seamless cotton/polyester knit shell is comfortable and flexible

» Latex crinkle coatings feature creases or wrinkles on the surface of the coating that are designed to channel fluids away allowing better contact on dry or wet surfaces — a natural rubber that is flexible, tough and durable due to its high degree of resistance to snagging, puncture, and abrasion

» Knit Wrist helps prevent dirt and debris from entering the glove

» Ergonomic shaped curved finger pattern

» Blue coating

» Gray Liner

» 10 Gauge

» Economy grade

Mfr. Model #	EN 388	Size	BSE Part #
39-1310/L	2142	Large	3380382
39-1310/XL	2142	X-Large	3380383

Ambi-dex® Turbo Disposable Powdered 5 mil Nitrile Gloves

Disposable Nitrile Glove, Powdered with Textured Grip — 5 mil

» Economical puncture resistance with great comfort, dexterity and tactile sensitivity
» Textured grip provides a good grip in wet or dry environments
» Contains no natural rubber latex proteins
» Ambidextrous and powdered for quick and easy donning
» Made from component materials that comply with Federal Regulations for food contact, 21 CFR 177.2600
» Industry Grade - For non-medical use
» Blue

Mfr. Model #	21 CFR	Size	Box Count	BSE Part #
63-332L	Yes	Large	100	1387974
63-332XL	Yes	X-Large	100	1413190

Economy Grade Leather Drivers Gloves

» Top Grain Pigskin leather construction provides great breathability due its porous texture, becomes softer with use and withstands moisture without stiffening
» Top Grain leather is smooth, provides durability and dexterity
» Drivers gloves feature slip-on cuff styling to provide good fit and comfort
» Keystone thumb is ergonomic, reduces hand fatigue, offers superior dexterity and durability
» Elastic closure sewn inside glove for safety and comfort
» Color coded hems for easy size identification

Mfr. Model #	Size	BSE Part #
WA2434A	Large	2236549
WA2435A	X-Large	2236550

Ztek Safety Glasses

Straight back flexible temples provide outstanding fit.

» Economical wrap-around single lens with panoramic view
» Scratch resistant polycarbonate lens
» Lens provides 99% UVA/B/C protection
» Integrated nosepiece
» Soft non-slip rubber temple tips provide non-binding fit
» Ztek is available in Mini and Reader options

PYRAMEX

Mfr. Model #	Description	BSE Part #
S2510S	Clear Frame/Clear Lens, Weight: 21 gm	1249320
S2520S	Gray Frame/Gray Lens, Weight: 21 gm	1249302
S2575S	Blue Mirror Frame/Blue Mirror Lens, Weight: 21 gm	1249298

Solo Safety Glasses

With vented temples for added comfort.

» Lightweight and economical
» Vented temples reduce fogging
» Scratch resistant polycarbonate
» ANSI, CSA, and CE

PYRAMEX

Mfr. Model #	Description	BSE Part #
S510S	Clear Lens, Weight: 46 gm	1249413
S510SJ	Clear Jumbo Lens, Weight: 46 gm	1249409
S520S	Gray Lens, Weight: 46 gm	1249408

TOOLS & SAFETY

UTILITY COMMUNICATIONS PARTNERS

- » 3M
- » AFL Telecommunications
- » Alcatel-Lucent Enterprise
- » Alpha Technologies
- » Altronix
- » American Polywater
- » APC
- » Atlas Sound
- » Band-It
- » Basor Electric
- » Blackburn Manufacturing
- » Blue Diamond
- » Bogen
- » Bourns
- » Brady
- » Brother
- » Burndy – A Hubbell Brand
- » Cabletec
- » Cablofil Legrand
- » Caddy – an nVent company
- » Cambium
- » Carol Cable
- » Carson Industries
- » Carsonite Composites
- » CDVI
- » Charles Industries
- » Circa Enterprises

- » Clearfield
- » CommScope
- » Condux
- » Creek Plastics
- » CyberPower
- » DataLight Optics
- » DeWalt
- » Dialight
- » Dottie
- » Duracell
- » Dura-Line
- » Eaton B-Line
- » Eaton Cooper Wheelock
- » Eaton Powerware
- » Edwards Signalling
- » Electric Motion – A Hubbell Brand
- » Ergodyne
- » Exeltech
- » EXFO
- » Fluke Networks
- » FreeWave Technologies
- » Gaitronics
- » General Cable
- » Great Lakes Case & Cabinet
- » Hoffman
- » Hubbell Power
- » Intellinet Network Solutions
- » Ideal Industries
- » Innomedia

- » ITW Linx
- » Jameson
- » Klein Tool
- » L-Com
- » LEM Products
- » Leviton
- » MacLean Senior Industries
- » Milwaukee Tools
- » Motorola 2-Way
- » Neptco
- » Nextivity
- » Nfina
- » OCC
- » Panasonic
- » Panduit
- » Patton Electronics
- » Pelsue
- » Positron
- » Preformed Line Products
- » Quam Nichols
- » Quazite – A Hubbell Brand
- » Quiktron
- » Rack-A-Tiers
- » RAD
- » Rajant
- » RF Industries
- » Rhino Marking
- » RLH Industries
- » Rohn Tower

- » Sensaphone
- » Sierra Wireless
- » Sola/Hevi-Duty (Emerson)
- » Southwire – Tappan
- » Specified Technologies
- » Strong Poles
- » Superior Essex
- » Takex
- » Talk-A-Phone
- » Telular
- » Tofino – A Belden Brand
- » Transtector Systems
- » United Poly
- » Vanco
- » Vertiv
- » Vitek
- » Vivotek
- » WBT
- » Will-Burt Company
- » Winnie
- » Winsted
- » Wiremold
- » WL Plastics

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E-commerce
BUILT FOR YOU

NEW LOOK, NEW EXPERIENCE

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- » Research products
- » Review pricing
- » Order products for delivery or pickup

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