770025003 | E2O677TSVRXP-2CT 900MTBLSZH-OJ

E2O® Coaxial/Fiber Hybrid Indoor Cable

- E#O is a solution that enables service providers the ability to bridge HFC networks to FTTx. The E#O composite coaxial/fiber product line combines fiber, microducts, and coaxial cable under one jacket
- Serves businesses in a new commercial serving area
- Mitigates future cost of fiber installation
- Saves on initial installation due to "single sheath" vs. multiple sheaths
- Ideal for commercial data customers that also require video
- All products tested to industry standards

Product Classification

Product Type	Hybrid cable, coax and fiber
Product Brand	E#O®
Product Series	6 Series
Warranty	One year

General Specifications

Cable Series	Series 6
Total Fiber Count	2

Dimensions

Height	11.887 mm	0.468 in
Outer Jacket Thickness, nominal	0.508 mm	0.02 in

Mechanical Specifications

Minimum Bend Radius	81.28 mm	3.2 in
Pulling Tension, maximum	33.112 kg	73 lb

Environmental Specifications

Environmental Space	Riser

Packaging and Weights

Weight, gross	89.29 kg/km	60 lb/kft

Regulatory Compliance/Certifications

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770025003 | E20677TSVRXP-2CT 900MTBLSZH-OJ

Agency   **Classification**

ISO 9001:2015   Designed, manufactured and/or distributed under this quality management system

Included Products

760150490 Z-002-DS-8W-FSUBK/D	–	Fiber indoor/outdoor cable, TeraSPEED® LSZH Riser Distribution, 2 fiber single-unit, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color, Dca flame rating
7702003 F677TSVR XP	–	XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 6, black flame retardant PVC jacket

* Footnotes

Warranty   For more information, please consult our Product Warranty guidelines
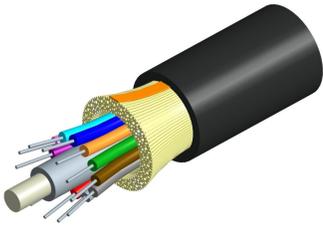
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760150490 | Z-002-DS-8W-FSUBK/D

Fiber indoor/outdoor cable, TeraSPEED® LSZH Riser Distribution, 2 fiber single-unit, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color, Dca flame rating
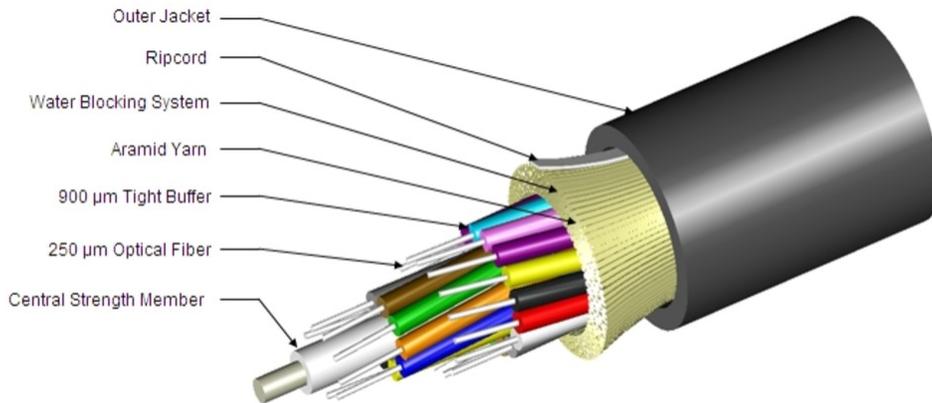
Product Classification

Regional Availability	Asia	Australia/New Zealand	EMEA	Latin America	North America
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	Z-DS

General Specifications

Cable Type	Distribution
Construction Type	Non-armored
Jacket Color	Black
Jacket Marking	Feet
Total Fiber Count	2

Dimensions

Diameter Over Jacket	3.8 mm	0.15 in

Representative Image

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760150490 | Z-002-DS-8W-FSUBK/D

Diagram labels:
- Outer Jacket
- Ripcord
- Water Blocking System
- Aramid Yarn
- 900 µm Tight Buffer
- 250 µm Optical Fiber
- Central Strength Member

Mechanical Specifications

Minimum Bend Radius, loaded	58 mm | 2.283 in
Minimum Bend Radius, unloaded	38 mm | 1.496 in
Tensile Load, long term, maximum	300 N | 67.443 lbf
Tensile Load, short term, maximum	1000 N | 224.809 lbf
Compression	22 N/mm | 125.623 lb/in
Compression Test Method	FOTP-41 | IEC 60794-1 E3
Flex	100 cycles
Flex Test Method	FOTP-104 | IEC 60794-1 E6
Impact	5.88 N-m | 52.042 in lb
Impact Test Method	FOTP-25 | IEC 60794-1 E4
Strain	See long and short term tensile loads
Strain Test Method	FOTP-33 | IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	FOTP-85 | IEC 60794-1 E7
Vertical Rise, maximum	500 m | 1,640.42 ft

Optical Specifications

Fiber Type	G.652.D and G.657.A1, TeraSPEED®

Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)

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760150490 | Z-002-DS-8W-FSUBK/D

Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696	EN 187105	Telcordia GR-20 (water penetration)	Telcordia GR-409
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d1
EN50575 CPR Cable EuroClass Acidity Rating	a2
Environmental Space	Low Smoke Zero Halogen (LSZH)	Riser
Flame Test Listing	NEC OFNR-ST1 (ETL) and c(ETL)
Flame Test Method	IEC 60332-3	IEC 60754-2	IEC 61034-2	UL 1666	UL 1685
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82	IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze Test Method	IEC 60794-1 F15
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-40 °C to +70 °C (-40 °F to +158 °F)
Low High Bend Test Method	FOTP-37	IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3	IEC 60794-1 F1

Packaging and Weights

Cable weight	11.6 kg/km	7.795 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 6, black flame retardant PVC jacket

Product Classification

Product Type	Coaxial drop cable
Product Brand	XPRESSPREP®
Product Series	6 Series
Warranty	One year

General Specifications

Cable Type	Series 6
Center Conductor Type	Solid
Jacket Color	Black
Jacket Marking	Feet
Performance Note	Attenuation listed represents maximum values at standard condition of 20 °C (68 °F)
Shield Construction Type	Trishield

Dimensions

Diameter Over Center Conductor, nominal	1.016 mm | 0.04 in
Diameter Over Dielectric, nominal	4.572 mm | 0.18 in
Diameter Over Inner Shield (Tape), nominal	4.75 mm | 0.187 in
Diameter Over Jacket, nominal	7.061 mm | 0.278 in
Jacket Thickness, nominal	0.762 mm | 0.03 in
Center Conductor Gauge	18 AWG
Inner Shield (Braid) Gauge	34 AWG

Electrical Specifications

Capacitance	53.15 pF/m | 16.2 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±3 ohm

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dc Resistance Note	Nominal values based on a standard condition of 20 °C (68 °F)
dc Resistance, Inner Conductor, nominal	100.066 ohms/km | 30.5 ohms/kft
dc Resistance, Loop, nominal	121.063 ohms/km | 36.9 ohms/kft
dc Resistance, Outer Conductor, nominal	20.997 ohms/km | 6.4 ohms/kft
Nominal Velocity of Propagation (NVP)	85 %
Operating Frequency Band	5–3000 MHz
Structural Return Loss, Grade A	≥15 dB @ 1801–3000 MHz | ≥20 dB @ 5–1800 MHz
Structural Return Loss, Grade C	≥15 dB @ 1801–3000 MHz | ≥20 dB @ 1002–1800 MHz | ≥23 dB @ 5–1002 MHz
Structural Return Loss, Grade G	≥15 dB @ 1801–3000 MHz | ≥20 dB @ 1002–1800 MHz | ≥26 dB @ 5–1002 MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	1.9	0.58
55.0	5.25	1.6
83.0	6.4	1.95
85.0	6.46	1.97
187.0	9.35	2.85
204.0	9.84	3
211.0	10	3.05
250.0	10.82	3.3
300.0	11.64	3.55
350.0	12.63	3.85
400.0	13.61	4.15
450.0	14.43	4.4
500.0	15.29	4.66
550.0	16.08	4.9
600.0	16.73	5.1
750.0	18.54	5.65
865.0	20.01	6.1
1000.0	21.49	6.55
1218.0	23.66	7.21
1300.0	24.71	7.53
1400.0	25.71	7.84

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1500.0	26.68	8.13
1600.0	27.63	8.42
1700.0	28.54	8.7
1794.0	29.39	8.96
1800.0	29.44	8.97
2000.0	31.17	9.5
2200.0	32.83	10.01
2500.0	35.2	10.73
2800.0	37.46	11.42
3000.0	38.91	11.86

Material Specifications

Center Conductor Material	Copper-clad steel
Dielectric Material	Foam PE
Jacket Material	Fire retardant PVC
Inner Shield (Braid) Coverage	77 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded
Outer Shield (Tape) Material	Aluminum/Polymer/Aluminum (APA) bonded

Environmental Specifications

Environmental Space	Riser
Flame Test Listing	CATVR | NEC Article 820

Packaging and Weights

Packaging Type	Reel
Weight, gross	44.645 kg/km | 30 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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