

# E201177TSEF XP - 24 CT MICFIBR

## E20® Coaxial/Fiber Hybrid Buried Cable



- E20 is a solution that enables service providers the ability to bridge HFC networks to FTTx. The E20 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

OBSOLETE

### Product Classification

Product Type	Hybrid cable, coax and fiber
Product Brand	E20®
Product Series	11 Series

### General Specifications

Cable Series	Series 11
Total Fiber Count	24

### Dimensions

Height	17.272 mm   0.68 in
Width	11.684 mm   0.46 in
Outer Jacket Thickness, nominal	0.762 mm   0.03 in

### Material Specifications

Outer Jacket Material	Medium density polyethylene (MDPE)
-----------------------	------------------------------------

### Mechanical Specifications

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

### Environmental Specifications

# E201177TSEF XP - 24 CT MICFIBR

**Environmental Space** Buried

## Packaging and Weights

**Weight, gross** 119.053 kg/km | 80 lb/kft

## Regulatory Compliance/Certifications

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



## Included Products

4846203	–	XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 11, black PE jacket, flooded for
F1177TSEF XP		underground
810008925/DB	–	LightScope ZWP® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube Arid-
B-024-LN-8W-F12NS/16G		Core® Construction Cable

# 4846203 | F1177TSEF XP

XPRESSPREP® Coaxial Drop Cable, 75 Ohm, Series 11, black PE jacket, flooded for underground



## Product Classification

Product Type	Coaxial drop cable
Product Brand	XPRESSPREP®
Product Series	11 Series
Warranty	One year

## General Specifications

Cable Type	Series 11
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	1.626 mm   0.064 in
Diameter Over Dielectric, nominal	7.112 mm   0.28 in
Diameter Over Inner Shield (Tape), nominal	7.29 mm   0.287 in
Diameter Over Jacket, nominal	10.16 mm   0.4 in
Jacket Thickness, nominal	0.991 mm   0.039 in
Center Conductor Gauge	14 AWG
Inner Shield (Braid) Gauge	34 AWG

## Electrical Specifications

Capacitance	53.15 pF/m   16.2 pF/ft
-------------	-------------------------

# 4846203 | F1177TSEF XP

<b>Characteristic Impedance</b>	75 ohm
<b>Characteristic Impedance Tolerance</b>	±3 ohm
<b>dc Resistance Note</b>	Nominal values based on a standard condition of 20 °C (68 °F)
<b>dc Resistance, Inner Conductor, nominal</b>	41.011 ohms/km   12.5 ohms/kft
<b>dc Resistance, Loop, nominal</b>	55.118 ohms/km   16.8 ohms/kft
<b>dc Resistance, Outer Conductor, nominal</b>	14.108 ohms/km   4.3 ohms/kft
<b>Nominal Velocity of Propagation (NVP)</b>	85 %
<b>Operating Frequency Band</b>	5–3000 MHz
<b>Structural Return Loss, Grade A</b>	=15 dB @ 1801–3000 MHz   =20 dB @ 5–1800 MHz

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
5.0	1.25	0.38
55.0	3.15	0.96
83.0	3.87	1.18
85.0	3.9	1.19
187.0	5.74	1.75
204.0	6.14	1.87
211.0	6.23	1.9
250.0	6.72	2.05
300.0	7.38	2.25
350.0	7.94	2.42
400.0	8.53	2.6
450.0	9.02	2.75
500.0	9.51	2.9
550.0	9.97	3.04
600.0	10.43	3.18
750.0	11.97	3.65
865.0	13.05	3.98
1000.0	14.27	4.35
1218.0	16.14	4.92
1300.0	16.44	5.01
1400.0	17.13	5.22
1500.0	17.79	5.42
1600.0	18.44	5.62

# 4846203 | F1177TSEF XP

1700.0	19.08	5.81
1794.0	19.66	5.99
1800.0	19.7	6
2000.0	20.89	6.37
2200.0	22.05	6.72
2500.0	23.7	7.22
2800.0	25.28	7.71
3000.0	26.3	8.02

## Material Specifications

Center Conductor Material	Copper-clad steel
Dielectric Material	Foam PE
Jacket Material	PE
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

Corrosion Protection	Migraheal®
Environmental Space	Buried

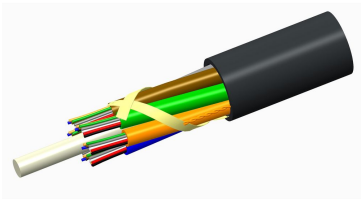
## Packaging and Weights

Packaging Type	Reel
Weight, gross	77.385 kg/km   52 lb/kft

## Regulatory Compliance/Certifications

Agency	Classification
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant





LightScope ZWP® Blown Micro Single Jacket All-Dielectric Outdoor Stranded Loose Tube Arid-Core® Construction Cable

## Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	B-LN

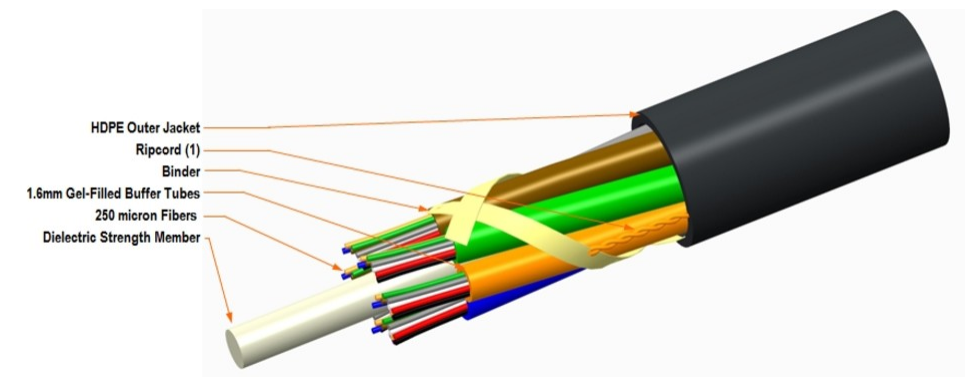
## General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Fiber Type, quantity	24
Fibers per Subunit, quantity	12
Filler, quantity	3
Jacket Color	Black
Jacket Marking	Feet
Subunit Type	Gel-filled
Subunit, quantity	2
Total Fiber Count	24

## Dimensions

Buffer Tube/Subunit Diameter	1.6 mm   0.063 in
Diameter Over Jacket	5.5 mm   0.217 in

## Representative Image



Material Specifications

Jacket Material

High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, loaded

83 mm | 3.268 in

Minimum Bend Radius, unloaded

55 mm | 2.165 in

Tensile Load, long term, maximum

97 N | 21.806 lbf

Tensile Load, short term, maximum

324 N | 72.838 lbf

Compression

10 N/mm | 57.101 lb/in

Compression Test Method

FOTP-41 | IEC 60794-1 E3

Flex

25 cycles

Flex Test Method

FOTP-104 | IEC 60794-1 E6

Impact

0.3 N-m | 2.655 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

492 m | 1,614.173 ft

Optical Specifications

Fiber Type

G.652.D and G.657.A1 | G.652.D and G.657.A1

Environmental Specifications

Installation temperature

-30 °C to +70 °C (-22 °F to +158 °F)

Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Storage Temperature	-30 °C to +75 °C (-22 °F to +167 °F)
Cable Qualification Standards	IEC 60794-5-10
Environmental Space	Air-blown, microduct
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82   IEC 60794-1 F5

### Environmental Test Specifications

Cable Freeze	-2 °C   28.4 °F
Cable Freeze Test Method	FOTP-98   IEC 60794-1 F15
Drip	70 °C   158 °F
Drip Test Method	FOTP-81   IEC 60794-1 E14
Heat Age	-30 °C to +85 °C (-22 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	FOTP-37   IEC 60794-1 E11
Temperature Cycle	-30 °C to +70 °C (-22 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3   IEC 60794-1 F1

### Packaging and Weights

Cable weight	20 kg/km   13.439 lb/kft
--------------	--------------------------

### Regulatory Compliance/Certifications

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



### \* Footnotes

Operating Temperature	Specification applicable to non-terminated bulk fiber cable
-----------------------	---