# 760255005 | P-016-HY-8G1-F30YL/8X16AWG/CTX



Constellation® Plenum Hybrid Fault Managed Power Cable, 16 Fiber Loose Tube, 8 Conductor 16 AWG Twisted Pairs

#### **Product Classification**

Regional AvailabilityNorth AmericaPortfolioCommScope®

Product Type Hybrid cable, copper and fiber

**Product Brand** Constellation™

General Specifications

Cable Type Fault managed power cable | Hybrid | MPO trunk cable | U/UTP

(unshielded)

Conductor Type, singles Stranded

Conductors, quantity 8

Construction TypeNon-armoredFiber Short DescriptionP-016-MP30

 Subunit Type
 Gel-free

 Jacket Color
 Yellow

 Subunit Jacket Color
 Yellow

Subunit, quantity 1

Fibers per Subunit, quantity 16

Total Fiber Count 16

**Dimensions** 

Buffer Tube/Subunit Diameter2.997 mm | 0.118 inDiameter Over Jacket, nominal12.167 mm | 0.479 inInsulation Thickness, singles4.064 mm | 0.16 inJacket Thickness0.838 mm | 0.033 in

Conductor Gauge 16 AWG



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### **Electrical Specifications**

**Capacitance** 82.021 pF/m | 25 pF/ft

**Conductor dc Resistance** 13.615 ohms/km | 4.15 ohms/kft

Dielectric Strength, conductor to shield 6000 Vdc

Material Specifications

Conductor Material Bare copper | Stranded copper wire

Insulation Material, singles PVC

Jacket Material Fire retardant PVC

Inner Jacket Material PVC

Ripcord Material Polyester

Mechanical Specifications

Minimum Bend Radius, loaded 482.6 mm | 19 in

Minimum Bend Radius, unloaded 243.84 mm | 9.6 in

**Tensile Load, long term, maximum** 444.822 N | 100 lbf

Tensile Load, short term, maximum 1,334.466 N | 300 lbf

**Compression** 1.018 kg/mm | 57 lb/in

**Compression Test Method** FOTP-41

Flex 25 cycles

Flex Test Method FOTP-104

**Impact** 2.17 ft lb | 2.942 N-m

Impact Test Method FOTP-25

**Strain** See long and short term tensile loads

Strain Test Method FOTP-33

Twist 10 cycles

Twist Test Method FOTP-85

Optical Specifications

**Fiber Type** G.657.A2/B2

**Environmental Specifications** 

Installation temperature 0 °C to +70 °C (-32 °F to +158 °F)

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**Operating Temperature** 0 °C to +75 °C (+32 °F to +167 °F)

Storage Temperature  $-40 \,^{\circ}\text{C}$  to  $+75 \,^{\circ}\text{C}$  (-40  $^{\circ}\text{F}$  to  $+167 \,^{\circ}\text{F}$ )

Cable Qualification Standards ANSI/ICEA S-83-596 | Telcordia GR-409 | UL 1400-2 | UL 444

Environmental Space Indoor | Plenum

Flame Test Listing

NEC CL4P-OF (ETL) and c(ETL) | NEC CMP-OF (ETL) and c(ETL)

Flame Test Method NFPA 262

**Environmental Test Specifications** 

**Low High Bend** 0 °C to +70 °C (+32 °F to +158 °F)

**Low High Bend Test Method** FOTP-37

**Temperature Cycle**  $0 \,^{\circ}\text{C}$  to +70  $^{\circ}\text{C}$  (+32  $^{\circ}\text{F}$  to +158  $^{\circ}\text{F}$ )

**Temperature Cycle Test Method** FOTP-3

Packaging and Weights

**Cable weight** 203.878 kg/km | 137 lb/kft

Included Products

CS-8G1-MP – Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T

G.657.A2, B2)

### \* Footnotes

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

