



Constellation® Plenum Hybrid Fault Managed Power Cable, 16 Fiber Loose Tube, 4 Conductor 16 AWG Twisted Pairs

Product Classification

Regional Availability	North America
Portfolio	CommScope®
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	4
Construction Type	Non-armored
Fiber Short Description	P-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 Diameter	2.997 mm 0.118 in
Diameter Over Jacket, nominal	10.287 mm 0.405 in
Insulation Thickness, singles	4.064 mm 0.16 in
Jacket Thickness	0.838 mm 0.033 in
Conductor Gauge	16 AWG

Electrical Specifications

Capacitance	82.021 pF/m 25 pF/ft
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760255004 | P-016-HY-8G-F30YL/4X16AWG/CTX

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 Para-aramid synthetic fiber

Mechanical Specifications

Minimum Bend Radius, loaded 406.4 mm | 16 in

Minimum Bend Radius, unloaded 203.2 mm | 8 in

Tensile Load, long term, maximum 200.17 N | 45 lbf

Tensile Load, short term, maximum 667.233 N | 150 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)

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

Storage Temperature -40 °C to +75 °C (-40 °F to +167 °F)

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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 °C to +70 °C (+32 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3

Packaging and Weights

Cable weight	113.1 kg/km 76 lb/kft
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Included Products

CS-8G1-MP	-	Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)
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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable