



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	2
Fibers per Subunit, quantity	16
Total Fiber Count	16

Dimensions

Buffer Tube/Subunit Diameter	2.997 mm 0.118 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
Conductor dc Resistance	13.615 ohms/km 4.15 ohms/kft

760255004 | P-016-HY-8G-F30YL/4X16AWG/CTX

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 172.72 mm | 6.8 in
Minimum Bend Radius, unloaded 114.3 mm | 4.5 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)
Cable Qualification Standards ANSI/ICEA S-83-596 | Telcordia GR-409 | UL 1400-2 | UL 444

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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	182.449 kg/km 122.6 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