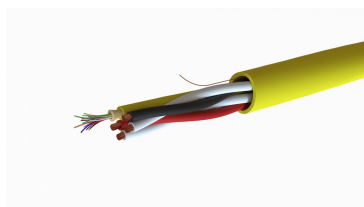


# 760255004 | P-016-HY-8G1-F30YL/4X16AWG /CTX



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

## Product Classification

<b>Regional Availability</b>	North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Hybrid cable, copper and fiber
<b>Product Brand</b>	Constellation™

## General Specifications

<b>Cable Type</b>	Fault managed power cable   Hybrid   MPO trunk cable   U/UTP (unshielded)
<b>Conductor Type, singles</b>	Stranded
<b>Conductors, quantity</b>	4
<b>Construction Type</b>	Non-armored
<b>Fiber Short Description</b>	P-016-MP30
<b>Subunit Type</b>	Gel-free
<b>Jacket Color</b>	Yellow
<b>Subunit Jacket Color</b>	Yellow
<b>Subunit, quantity</b>	1
<b>Fibers per Subunit, quantity</b>	16
<b>Total Fiber Count</b>	16

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	2.997 mm   0.118 in
<b>Diameter Over Jacket, nominal</b>	10.287 mm   0.405 in
<b>Insulation Thickness, singles</b>	4.064 mm   0.16 in
<b>Jacket Thickness</b>	0.838 mm   0.033 in
<b>Conductor Gauge</b>	16 AWG

## Electrical Specifications

<b>Capacitance</b>	82.021 pF/m   25 pF/ft
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**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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<b>Cable Qualification Standards</b>	ANSI/ICEA S-83-596   Telcordia GR-409   UL 1400-2   UL 444
<b>Environmental Space</b>	Indoor   Plenum
<b>Flame Test Listing</b>	NEC CL4P-OF (ETL) and c(ETL)   NEC CMP-OF (ETL) and c(ETL)
<b>Flame Test Method</b>	NFPA 262

## Environmental Test Specifications

<b>Low High Bend</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Low High Bend Test Method</b>	FOTP-37
<b>Temperature Cycle</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3

## Packaging and Weights

<b>Cable weight</b>	113.1 kg/km   76 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ROHS	Compliant
UK-ROHS	Compliant



## 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