

Fiber indoor/outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, Plenum Rated, 144 fiber, Singlemode G.652.D and G.657.A1, Gel-Free, Stranded Loose Tube, PVDF jacket, Black jacket color, Feet cable marking

### Product Classification

Regional Availability	Asia   Australia/New Zealand   Latin America   Middle East /Africa   North America	
Portfolio	CommScope®	
Product Type	Fiber indoor/outdoor cable	
Product Series	P-LN	
General Specifications		
Cable Type	Stranded loose tube	
Construction Type	Non-armored	
Subunit Type	Gel-free	
Jacket Color	Black	
Jacket Marking	Feet	
Subunit, quantity	12	
Fibers per Subunit, quantity	12	
Total Fiber Count	144	
Dimensions		
Buffer Tube/Subunit Diameter	2.5 mm   0.098 in	
Diameter Over Jacket	15.3 mm   0.602 in	

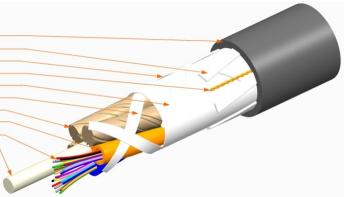
### Representative Image

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Plenum-Rated Outer Jacket Strength Elements Binder Ripcord (1) Water Swellable Tape Binder Paper Fillers 2.5 mm Gel-Free Buffer Tubes 250 micron Fibers Dielectric Strength Member



Plenum-Rated Outer Jacket Strength Elements Binder Water Swellable Tape Ripcord (1) Binder 2.5 mm Gel-Free Buffer Tubes 250 micron Fibers

Mechanical Specifications

Minimum Bend Radius, loaded	230 mm   9.055 in
Minimum Bend Radius, unloaded	153 mm   6.024 in
Tensile Load, long term, maximum	800 N   179.847 lbf
Tensile Load, short term, maximum	2700 N   606.984 lbf
Compression	22 N/mm   125.623 lb/in
Compression Test Method	FOTP-41   IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104   IEC 60794-1 E6
Impact	4.41 N-m   39.032 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

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**COMMSCOPE**°

Twist Test Method

Vertical Rise, maximum

#### **Optical Specifications**

Fiber Type

FOTP-85 | IEC 60794-1 E7 327 m | 1,072.835 ft

G.652.D and G.657.A1, TeraSPEED® | OS2 | OS2

### **Environmental Specifications**

Installation temperature	-30 °C to +70 °C (-22 °F to +158 °F)	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)	
Cable Qualification Standards	ANSI/ICEA S-104-696   EN 187105   Telcordia GR-409	
Environmental Space	Plenum	
Flame Test Listing	NEC OFNP (ETL) and c(ETL)	
Flame Test Method	NFPA 130   NFPA 262	
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 FOTE	P-98   IEC 60794-1 F15
Heat Age -40 °	C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method IEC 6	50794-1 F9
Low High Bend -30 °	C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method FOTE	P-37   IEC 60794-1 E11
Temperature Cycle -40 °	C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method FOTF	P-3   IEC 60794-1 F1

#### Packaging and Weights

#### Cable weight

250 kg/km | 167.992 lb/kft

#### Regulatory Compliance/Certifications

#### Classification

CHINA-ROHS

Agency

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Below maximum concentration value

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Designed, manufactured and/or distributed under this quality management system

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ISO 9001:2015

REACH-SVHC

ROHS

UK-ROHS



Included Products

CS-8W-IOLT - TeraSPEED® OS2 Singlemode Fiber

Compliant

Compliant

#### \* Footnotes

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

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