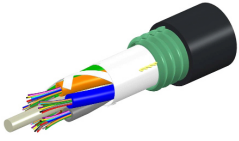


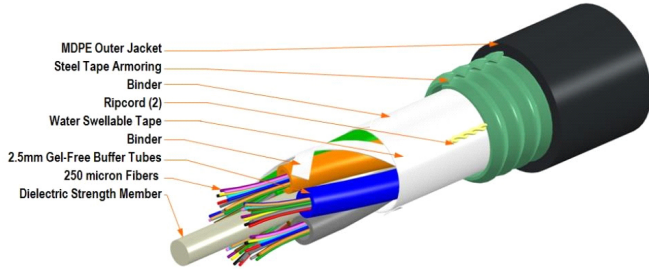
760053314 | D-048-LA-8W-F12NS

**TeraSPEED® Single Jacket/Single Armor, Gel-Free, Outdoor Stranded Loose Tube Cable**

- Corrugated steel tape armor is strong yet flexible, providing additional crush and rodent protection



## Representative Image



## General Specifications

Cable Type	Stranded loose tube
Construction Type	Armored
Subunit Type	Gel-free

## Construction Materials

Fiber Type Solution	TeraSPEED®, zero water peak singlemode fiber (G.652.D, G.657.A1   OS2)
Jacket Material	PE
Total Fiber Count	48
Armor Type	Corrugated steel
Fiber Type	TeraSPEED®, zero water peak singlemode fiber (G.652.D, G.657.A1   OS2)
Fiber Type, quantity	48
Fibers per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

## Dimensions

Buffer Tube/Subunit Diameter	2.50 mm   0.10 in
Cable Weight	108.0 kg/km   72.0 lb/kft
Diameter Over Jacket	11.50 mm   0.45 in
Filler, quantity	1
Subunit, quantity	4

## Physical Specifications

Minimum Bend Radius, loaded	17.3 cm		6.8 in
Minimum Bend Radius, unloaded	11.5 cm		4.5 in
Tensile Load, long term, maximum	800 N		180 lbf
Tensile Load, short term, maximum	2700 N		607 lbf
Vertical Rise, maximum	760.0 m		2494.0 ft

## Environmental Specifications

Environmental Space	Aerial, lashed		Buried
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)		

## Mechanical Test Specifications

Compression	250 lb/in		44 N/mm
Compression Test Method	FOTP-41		IEC 60794-1 E3
Flex	35 cycles		
Flex Test Method	FOTP-104		IEC 60794-1 E6
Impact	2.17 ft lb		2.94 N-m
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		
Twist Test Method	FOTP-85		IEC 60794-1 E7
Water Penetration	24 h		
Water Penetration Test Method	FOTP-82		IEC 60794-1 F5

## Environmental Test Specifications

Cable Freeze	-2 °C		28 °F
Cable Freeze Test Method	FOTP-98		IEC 60794-1 F15
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)		
Heat Age Test Method	IEC 60794-1 F9		
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)		
Low High Bend Test Method	FOTP-37		IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)		
Temperature Cycle Test Method	FOTP-3		IEC 60794-1 F1

## Qualification Specifications

Cable Qualification Standards	ANSI/ICEA S-87-640		EN 187105		Telcordia GR-20
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## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



## Included Products

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CS-8W-LT (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber

## \* Footnotes

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Operating Temperature Specification applicable to non-terminated bulk fiber cable