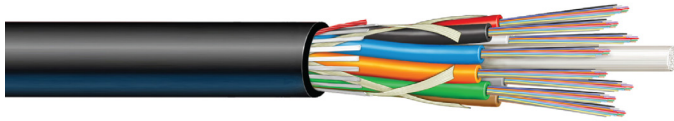


GenSPEED®

Chemical Resistant Harsh Environment

Chemical Resistant and Tray Cables



LSZH Jacket

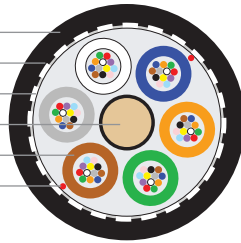
Flame Retardant Tape

Water Blocking Tape

Central Strength Member

Gel-Filled Buffer Tube Containing up to 12 Fibers

Ripcord



OVERVIEW

Prysmian's GenSPEED® harsh environment chemical resistant cable can deploy up to 216 optical fibers in a variety of challenging environments, such as airport runways and tarmacs, where jet fuel and de-icing fluid is prevalent. When compared to FAA specifications requiring PVDF, the CPE jacket provides equivalent chemical and oil resistance at a better value.

SPECIFICATIONS / RATINGS

Applications Rugged indoor/outdoor cable providing protection from harsh chemicals and solvents. Appropriate for industrial facilities, airstrips, and other specialty applications.

Constructions Dielectric (single jacket)

Flame Ratings General purpose OFN / OFC

Fiber Count 2 to 216

Fiber Types Single-mode (ESMF, bend-insensitive multimode (62.5/125-OM1, 50/125-OM2+, OM3 & OM4)

Standards ANSI/ICEA S-104-696, UL-1685 Tray Rating, UL-2556 4.2.8.3 "Oil Resistance" PR11, UL-2556 4.2.8.4 "Gasoline Resistance" GR11, Telcordia GR-20, CE RoHS Compliant

Registered Supplier ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



FEATURES AND BENEFITS

- Proven stranded loose tube cable design for long term reliability
- Flame-retardant, chemical resistant, black UV-resistant outer jacket
- Resistant to jet fuel and de-icing chemicals for airport applications
- Hydrocarbon (Petrochemicals such as kerosene, gasoline, lubricating oil) resistant
- Suitable for Tray installations per NFPA 70
- Cable core utilizing dry water block technology to improve handle ability
- Available with bend-insensitive single-mode and multimode optical fibers
- Gel-filled buffer tubes provide protection from harsh chemicals and fluids

Chemical Resistance Performance

Compound	Test Criteria
ASTM No. 2 Oil	96 hours at 100°C
Kerosene	168 hours at 50°C
MIL-T-5624N JP-4 (jet fuel)	168 hours at 50°C
MIL-H-5606 Hydraulic Fluid	168 hours at 50°C
Vegetation Killer	168 hours at 50°C
De-Icing Fluid	24 hours at 50°C
Hydrogen Sulfide (H2S)	24 hours at 100°C



Prysmian

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TLS-DS-D-201-0626

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GenSPEED® Indoor/Outdoor Chemical Resistant (Single Jacket) | DXPCB Series | OFN

Fiber Count Range	Recommended Fiber Count	Recommended Part Number	# of Buffer Tubes	Diameter		Approx. Cable Weight		Bend Radius Load		Bend Radius No Load		Max. Reel Length	
		Prysmian*		Inches	mm	lb/ft	kg/km	Inches	cm	inches	cm	feet	meters
6 - 48	6	DXPCB-12-AA-006-BB	5	0.41	10.3	62	93	8	21	4	10	41,010	12,500
	12	DXPCB-12-AA-012-BB											
	24	DXPCB-12-AA-024-BB											
	36	DXPCB-12-AA-036-BB											
	48	DXPCB-12-AA-048-BB											
72	72	DXPCB-12-AA-072-BB	6	0.44	11.2	73	109	9	22	4	11	41,010	12,500
96	96	DXPCB-12-AA-096-BB	8	0.51	12.9	95	142	10	26	5	13	41,010	12,500
120	120	DXPCB-12-AA-120-BB	10	0.58	14.8	125	186	12	30	6	15	41,010	12,500
144	144	DXPCB-12-AA-144-BB	18	0.65	16.5	154	229	13	33	6	17	41,010	12,500
216	216	DXPCB-12-AA-216-BB	18	0.65	16.5	154	229	13	33	6	17	33,465	10,200

* Where AA equals glass type and BB equals attenuation

Installation

Maximum installation load: 600 lbf (2670 N)
Maximum operation load: 180 lbf (801 N)

Temperature Range

Shipping and Storage: -40° F to +176° F (-40° C to +80° C)
Installation: -14° F to +140° F (-10° C to +60° C)
Operation: -40° F to +176° F (-40° C to +80° C)

Note. Cable damage may occur if installation temperature limits are exceeded; therefore, Prysmian recommends storing I/O cables in appropriate temperature conditions ≥ 24 hours prior to placement.



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Ordering Guide

The Prysmian part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

Example: GenSPEED® Indoor/Outdoor LT cable with Chemical Resistant/Tray, Dielectric (Single Jacket), and 48 Singlemode Fibers (Printed in feet)

1	LENGTH MARKINGS	2	PRODUCT FAMILY	3	CONSTRUCTION	4	FIBER GROUPING	5	FIBER TYPE	6	FIBER COUNT	7	FIBER GRADE
	F		DXPCB		BLANK		12		B1		048		M2

PART NUMBER CONSTRUCTION	
1	LENGTH MARKINGS
	F = Feet or M = Meters
2	PRODUCT FAMILY
	Riser / FT4 Dry Tubes OFNR / FT4
	DXPCB = I/O Chemical Resistant Tray All-dielectric (single jacket) LT OFN
3	CONSTRUCTION
	(Blank) = None
4	FIBER GROUPING
	12 = 12f per tube

FIBER INFORMATION				
5	FIBER TYPE			
SINGLE-MODE				
B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)				
B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)				
MULTIMODE		Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)
G6 = OM1 (62.5µm)		850/1300	200/500	300/550
G5 = OM2+ BIF (50µm)		850/1300	700/500	800
G3 = OM3 BIF (50µm)		850/1300	1500/500	1000
G4 = OM4 BIF (50µm)		850/1300	3500/500	1100
6	FIBER COUNT			
002 to 216 fibers				
7	FIBER GRADE			
SINGLE-MODE				
Attenuation (dB/km)		Wavelength (nm)		Fiber Type
E1 = 0.40/0.40/0.30		1310/1383/1550		B1 or B2
MULTIMODE				
Attenuation (dB/km)		Wavelength (nm)		Fiber Type
M2 = 3.5/1.0		850/1300		OM1 (62.5µm)
M3 = 3.0/1.0		850/1300		OM2+, OM3, OM4 (50µm)

Other cable constructions and fiber performance grades available on request.