Prysmian Group

PRYSMIAN
Draka
General Cable

1152 to 1728F MassLink™ with FlexRibbon™ Technology 250 µm Fibers

Overview

MassLink™ with FlexRibbon™ Technology provides an ultra-compact outside plant cable design that contains up to 1728 bend insensitive fibers, small enough to fit into a 1.25" duct. By using FlexRibbon technology, ribbons are rolled up and packed together in small diameter 288 fiber sub units. While FlexRibbon™ provides high packing density, these 250 µm fiber ribbons still provide the advantages of mass fusion splicing

Ultra Compact Design

- FlexRibbons™ are rolled up into compact 288 fiber sub units for easier routing
- Significantly smaller diameter and lighter weight cables allow for easier installation and the use of smaller ducts
- With a 21% smaller diameter (38% volume reduction) over traditional ribbon designs, a 1728 dielectric cable can be installed in a 1.25" duct which maximizes duct space utilization

FlexRibbon Technology

- Extremely flexible ribbons can be rolled up for high packing densities or laid flat for ribbon splicing
- 12 fiber ribbons are compatible with mass fusion heat strippers, cleavers, and splice machines
- Uses standard 250 um coated bend-insensitive fiber (ITU G657. A1 or A2)

Performance

- Uses full dry water blocking technology in the tubes and cable core for easy closure preparation and termination
- Tested in accordance with ICEA 640 and with relevant EIA/TIA-455 series FOTPs for fiber optic cables

Registered Supplier

- ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

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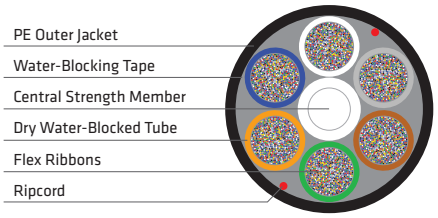
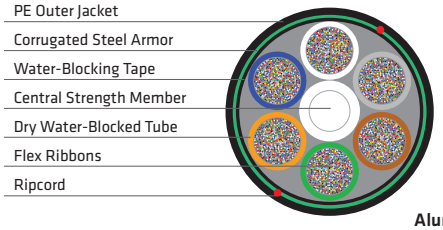
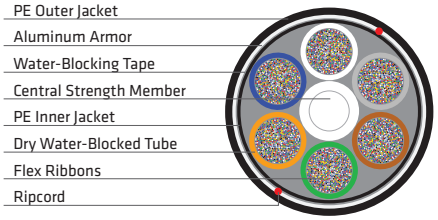
Dielectric Design



Single Armor Double Jacket Design



Aluminum Interlock Armor Design



PERFORMANCE SPECIFICATIONS

Dielectric Minimum Bend Diameter (Diameter = Radius x 2)		
Installation	Wheel/Capstan	40 inches (100 cm)
Long Term	Coil/Slack/Bend	20 inches (50 cm)
Armored Minimum Bend Diameter (Diameter = Radius x 2)		
Installation	Wheel/Capstan	47 inches (120 cm)
Long Term	Coil/Slack/Bend	25 inches (63 cm)
Interlock Armored Minimum Bend Diameter (Diameter = Radius x 2)		
Installation	Wheel/Capstan	54 inches (136 cm)
Long Term	Coil/Slack/Bend	28 inches (72 cm)
Minimum Bend Radius		
Installation/Dynamic	20 x Cable OD	
Long Term/Static	10 x Cable OD	
Tensile Rating	**N**	**lbf**
Installation	2700	600
Residual	800	180
Crush Resistance	**N/cm**	**lbf/in**
Short/ Long Term	220/110	125/63
Temperature Ratings	**°C**	**°F**
Operation	-30 to +70	-22 to +158
Installation	-30 to +60	-22 to +140
Storage/Shipping	-40 to +70	-40 to +158

TLS-DS-A-304-0320

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RIBBON COLOR CODE

Ribbon #	Mark-ing	Ribbon #	Marking
1		13	
2		14	
3		15	
4		16	
5		17	
6		18	
7		19	
8		20	
9		21	
10		22	
11		23	
12		24	

NOMINAL DESIGN PARAMETERS

Fiber Count				1152-1728
Tube Positions				6
Number of Ribbons/Tube				24
Fibers/Tube				288f
Buffer Tube OD			(mm)	7.4
			(inches)	0.29
Dimensions	Units	All Dielectric (1JKT)	Corugated Steel Armored ((1A2J)	Aluminum Interlock Armor (1JKTAJ)
Cable OD	(mm)	24.9	30.1	34.1
	(Inches)	0.98	1.19	1.34
Cable Weight	(kg/km)	379	627	844
	(lb/kft)	254	421	567
Maximum Length	(m)	5,731	5,054	2,715
	(ft)	18,803	16,582	8.910
Duct Size/% Fill	in/%	1.25"/78%	1.5"/79%	NA

Ordering Guide

The Prysmian Group 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: 1728 count all-dielectric MassLink with FlexRibbon Technology with G657.A1 bend insensitive fiber and 0.40/0.40/0.30 dB/km attenuation.

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	RLF	1JKT	12	B1	1728	E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

RLF = MassLink with FlexRibbon Technology

3 CONSTRUCTION

1JKT = All Dielectric Single Jacket

1A2J = Single Corrugated Steel Armor Double Jacket

1JKTAJ = Single Jacket Cable with Aluminum Interlock Armor & Outer Jacket

4 FIBER GROUPING

12 = 12f Flex-Ribbons

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE

B1 = Bend Insensitive Single-Mode (ITU G.657.A1 & G.652.D)

CU = Corning™ Ultra Single-Mode (ITU G.657.A1 & G.652.D)

B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)

6 FIBER COUNT

1152 to 1728 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	Fiber Type
E1 = 0.40/0.40/0.30	1310/1383/1550	B1, CU, or B2

Note: Please refer to the Fiber Code Addendum for additional fiber options, or contact us for help.

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