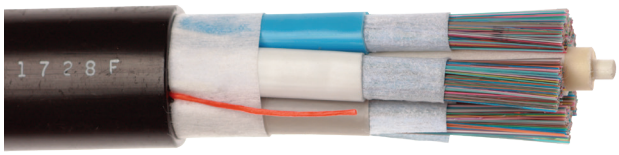
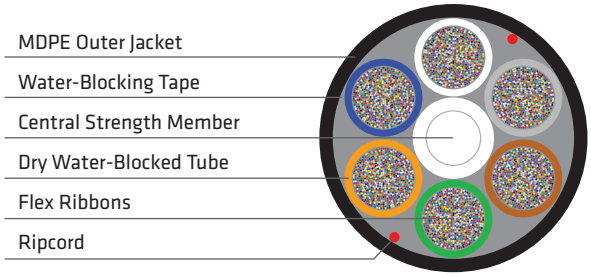
Prysmian Group

PRYSMIAN Draka

MassLink™ with FlexRibbon™ Technology

Ultra compact ribbon design for access or data center applications





Overview

MassLink™ with FlexRibbon™ Technology provides an ultra-compact outside plant cable design that contains 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 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

PERFORMANCE SPECIFICATIONS		
Bend Radius		
Dynamic	20 x Cable OD	
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

NOMINAL DESIGN PARAMETERS		
Fiber Count		1728
Tube Positions		6
Number of Ribbons/Tube		24
Cable OD	(mm)	24.9
	(inches)	0.98
Weight	(kg/km)	379
	(lb/kft)	254
Maximum Length	(m)	4,834
	(ft)	15,860
Duct Size / % Fill	1.25" / 78%	
Fiber / Sub Unit	6 Units x 288f / Unit	

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500A DS109 MASSLINK FlexRibbon 05-18

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RIBBON COLOR CODE			
Ribbon #	Marking	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	

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 = Single Jacket

4 FIBER GROUPING

12 = 12f Flex-Ribbons

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

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

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

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