

Part No: 52F-XXX-XXX-EXCXSG

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52F-Series FTTH Flat Drop Gel Filled Loose Tube Fiber Optic Cable

Cable Cross Section



(Representation of a standard 12 fiber construction)

Scope

This document establishes the specification requirements for an aerial self-supporting central gel filled loose buffer tube design.

Applications

Used for fiber to the home or business, Aerial, Duct or Direct Burial

Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details

- Buffer Tube
 - High Modulus Polymeric Material
- Buffer Tube Dimensions
 - 3.00 mm (0.118 in.), nominal
- Loose Tube Color Code:
 - White
- Fiber Color Code:
 - As per TIA/EIA-598 standard or per customer requirement
- Filling Compound
 - Non-toxic dermatological safe antioxidant hydrocarbon based gel
- Dielectric Central Strength Member:
 - Epoxy Glass Rods
- Fiberglass Rod Dimension:
 - 1.7 mm (0.067 in.), nominal
- Cable core:
 - The cable core consists of the buffer tube, two fiberglass epoxy rods and fiberglass yarns
- Cable Strength:
 - Epoxy Glass Rods are pulled in longitudinal on each side of the buffer tube.
- Overall Sheath: UV Resistant Polyethylene

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Nominal Cable Dimensions & Weights			
Remeë Products Part Number	Number of Fibers	Cable OD in (mm)	Weight lb/1000ft (kg/km)
52F-002-XXX-EXCBSG	2	0.175 x 0.335 (4.4 x 8.5)	26 (39)
52F-004-XXX-EXCDSG	4	0.175 x 0.335 (4.4 x 8.5)	26 (39)
52F-006-XXX-EXCFSG	6	0.175 x 0.335 (4.4 x 8.5)	27 (39)
52F-008-XXX-EXCHSG	8	0.175 x 0.335 (4.4 x 8.5)	27 (40)
52F-010-XXX-EXCJSG	12	0.175 x 0.335 (4.4 x 8.5)	27 (40)
52F-012-XXX-EXCLSG	12	0.175 x 0.335 (4.4 x 8.5)	27 (40)

**Cables printed in meters will have a "-MR" suffix on the part number.*

Jacket Color	
Designation	Color
B	Black
Y	Yellow
Z	Orange
A	Aqua
M	Violet

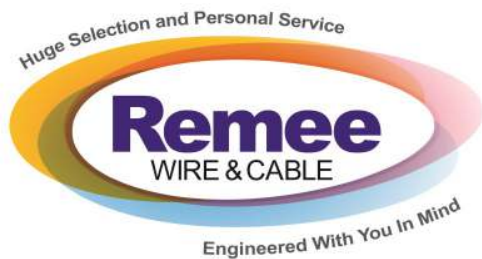
Fiber Type (P/N)	Maximum Attenuation dB/km				Overfill Launch Min Bandwidth (MHz-km)		EMBc (MHz-km)	Gigabit Ethernet Minimum Link Distance (Meters)		10 Gigabit Ethernet Minimum Link Distance (Meters)	
	850 nm	1300 nm	1310 nm	1550 nm	850 nm	1300 nm		850 nm	1300 nm	850 nm	1300 nm
62.5µm OM1 1GIG (22J)	3.2	1.0	N/A	N/A	200	600	N/A	300	550	32	-
50µm OM2 10GIG (12D)	3.0	1.0	N/A	N/A	750	500	N/A	800	550	150	-
50µm OM3 10GIG (12N)	3.0	1.0	N/A	N/A	1500	500	2000	1000	550	300	-
50µm OM4 10GIG (12V)	3.0	1.0	N/A	N/A	3500	500	4700	1040	550	550	-
SM OS2 G.652.D (76K)	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D (74K)	N/A	N/A	0.35	0.25	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D/G.657.A1 BIF (76U)*	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000
SM OS2 G.652.D/G.657.A2, B2 BIF (76F)**	N/A	N/A	0.40	0.30	N/A	N/A	N/A	N/A	5000	N/A	10000

** G.657.A1 (76U) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤0.50dB*

*** G.657.A2,B2 (76F) Mandrel Radius of 7.5mm, 1 turn at 1550nm with an induced attenuation of ≤0.40dB*

Please call the factory for all other fiber types

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Mechanical & Environmental Performance

- Maximum Tensile Load
Installation : 1375N / 310lbf
Long Term : 413N / 93lbf
- Minimum Bending Radius
Loaded : 20 x Diameter
Unloaded : 10 x Diameter
- Crush Resistance
220 N/cm
- Impact Resistance (min.)
25 Impacts
- Flexing $\pm 90^\circ$ (min.)
25 Cycles
- Temperature Rating
Operation : -40°C to $+70^\circ\text{C}$
Installation : -40°C to $+70^\circ\text{C}$
Storage : -50°C to $+70^\circ\text{C}$
- Maximum Spans
NESC Heavy : 150 ft
NESC Medium : 300 ft
NESC Light : 400 ft

Warranty Information

All warranty information can be viewed at www.remeo.com. This product is RoHS compliant and is directive 2002/95/EC. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice.

Preparation for Shipment

The cable shall be packaged to preclude the inducement of damage due to handling and transportation, and shall be in accordance with the best commercial practices available. Shipping containers shall be constructed as to eliminate any possible damage to the cables due to shipment.

Note: While Remeo Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Remeo Products Corp. does not guarantee that it is error-free, nor does Remeo Products Corp. make any other representation, warranty, or guarantee that the information is accurate, correct, reliable or current. Remeo Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Remeo Products Corp. expressly disclaims all implied warranties regarding the information contained herein, including but not limited to, any implied warranties of merchantability or fitness for particular purpose. The dimensions in this documents are for reference purposes only and are subject to change without notice.

Spec Approval (Custom Designs Only)

Your signature constitutes that you have read and agreed to this specification sheet and upon confirmation of your order: this item may be non-cancelable and non-returnable.

Signature: _____ Date: _____