

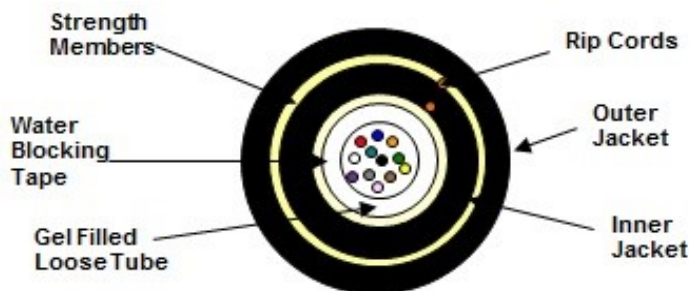
Part No: 55-XXX-XXX-MXCXNN

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Revision #: 08

55-Series Outdoor Heavy Duty All Dielectric Double Jacket Central Tube 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 outdoor, heavy duty, all dielectric, dry block fiber optic cable in a gel filled loose buffer tube.

Applications

Outdoors direct burial, duct or aerial lashed

Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- RUS 1755.900
- Compliant with ANSI/TIA-568-C.3 standard
- ICEA S-87-640 Standard

Cable Construction Details

- Buffer Tube
High Modulus Polymeric Material
- Buffer Tube Dimensions
3.0 mm (0.118 in.), nominal
- Central 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
- Cable Core:
The cable core consists of buffer tube with water-blocking tape
- Moisture Resistance:
A water blocking tape is applied over the central tube with a 25% nominal overlap
- Inner Sheath: UV Resistant Polyethylene
A ripcord is applied under the inner sheath
- Cable Strength:
Circumferential strength members are placed under the outer sheath
- Overall Sheath: UV resistant polyethylene
A ripcord is applied under the outer sheath

All warranty information can be viewed at WWW.REMEE.COM

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| Nominal Cable Dimensions & Weights | | | |
|------------------------------------|------------------|------------------|--------------------------|
| Remeë Products Part Number | Number of Fibers | Cable OD in (mm) | Weight lb/1000ft (kg/km) |
| 55-002-XXX-MXCBNN | 2 | 0.341 (8.7) | 40 (59) |
| 55-004-XXX-MXCDNN | 4 | 0.341 (8.7) | 40 (59) |
| 55-006-XXX-MXCFNN | 6 | 0.341 (8.7) | 40 (59) |
| 55-008-XXX-MXCHNN | 8 | 0.341 (8.7) | 40 (59) |
| 55-012-XXX-MXCLNN | 12 | 0.341 (8.7) | 40 (59) |

**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 |

| 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 or 12L) | 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&76E) | 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&74E) | 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 (76B)* | 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.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 |
| SM OS2 G.652.D/G.657.B3 BIF (76Y)*** | N/A | N/A | 0.40 | 0.30 | N/A | N/A | N/A | N/A | 5000 | N/A | 10000 |

* G.652d&G.657.A1 (76U&76B) Mandrel Radius of 10mm, 1 turn at 1550nm with an induced attenuation of ≤ 0.50 dB (76U is Corning Ultra) & 76B is Pyramian Bendbright)

** G.652d&G.657.A2,B2 (76F) Mandrel Radius of 7.5mm, 1 turn at 1550nm with an induced attenuation of ≤ 0.40 dB (76F is Corning Clearcurve LBL)

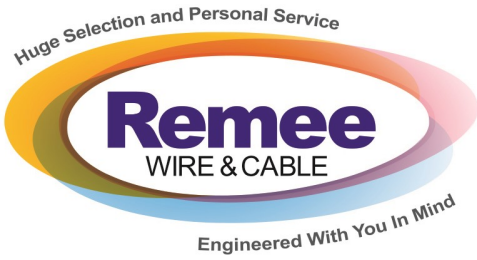
*** G.652d&G.657.B3 (76Y) Mandrel Radius of 5.0mm, 1 turn at 1550nm with an induced attenuation of ≤ 0.10 dB (76Y is Corning Clearcurve ZBL)

Measured attenuations on shipping reels will not exceed the nominal values by 0.75 dB/km

Please call the factory for all other fiber types

All warranty information can be viewed at WWW.REMEE.COM

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Mechanical & Environmental Performance

- Maximum Tensile Load
Installation : 2700N / 607lbf
Long Term : 890N / 200lbf
- 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°C
Installation : -0°C to +70°C
Storage : -40°C to +75°C

Warranty Information

All warranty information can be viewed at www.remee.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 Reme Products Corp. has made every reasonable effort to ensure the accuracy of the information in this document, Reme Products Corp. reserves the right to make any adjustments to the information contained herein at any time without notice. Reme 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. The Reme Wire & Cable warranty is an integral part of this specification. This item may be non-cancelable and non-returnable.

Signature: _____ Date: _____

All warranty information can be viewed at WWW.REMEE.COM

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