

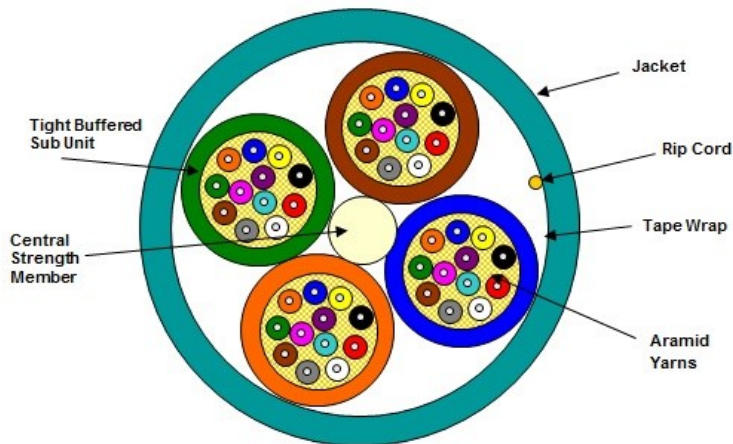
Part No: 33-XXX-XXX-RXSXNP

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Revision #: 00

33-Series Tight Buffer Indoor Plenum Distribution Fiber Optic Cable

Cable Cross Section



(Representation of a standard 48 fiber construction)

Scope

This document establishes the specification requirements for a distribution indoor all dielectric fiber optic cable. This cable construction consists of a distribution tight-buffer design with a plenum rated jacket.

Applications

Indoors in the Plenum Space and Tray Installations

Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- UL 910
- GR-409-CORE
- Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details

- Tight Buffered Fiber
Dimension: 900µm, Nominal
- Tight Buffer/Sub Unit Color Code:
As per TIA/EIA-598 standard or per customer requirement
- Sub Unit Construction:
Aramid yarns are pulled in with tight buffered fibers under a sub-unit jacket.
- Dielectric Central Strength Member:
Epoxy Glass Rod (up-coated as required per construction)
- Cable Core:
Sub-units and fillers are stranded around the CSM, using reverse oscillation.
A non-wicking and non-hygroscopic tape is applied longitudinally over the cabled core with a 25% nominal overlap.
Binder yarns are applied over the core tape.
- Overall Sheath: UV Resistant Remguard Plenum Rated Polymer
A ripcord applied under the overall sheath.

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| Nominal Cable Dimensions & Weights | | | | |
|------------------------------------|------------------|-------------------------------|------------------|--------------------------|
| Remee Products Part Number | Number of Fibers | Number of Fibers Per Sub Unit | Cable OD in (mm) | Weight lb/1000ft (kg/km) |
| 33-018-XXX-RXSFP | 18 | 6 | 0.546 (13.9) | 104 (155) |
| 33-024-XXX-RXSFP | 24 | 6 | 0.546 (13.9) | 101 (151) |
| 33-036-XXX-RXSFP | 36 | 6 | 0.666 (16.9) | 155 (230) |
| 33-048-XXX-RXSLNP | 48 | 12 | 0.634 (16.1) | 135 (201) |
| 33-060-XXX-RXSLNP | 60 | 12 | 0.696 (17.7) | 165 (246) |
| 33-072-XXX-RXSLNP | 72 | 12 | 0.756 (19.2) | 204 (304) |
| 33-096-XXX-RXSLNP | 96 | 12 | 0.926 (23.5) | 316 (471) |
| 33-144-XXX-RXSLNP | 144 | 12 | 1.078 (27.4) | 390 (580) |

**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 : 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 : -20°C to +85°C
Installation : 0°C to +75°C
Storage : -40°C to +85°C

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: _____