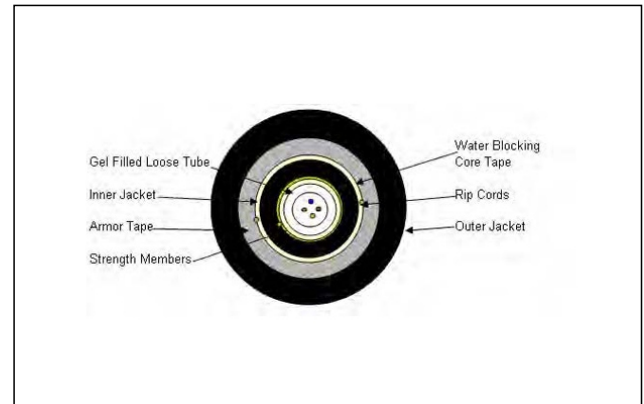


Part No.: 53-XXX-12C-MBCXNN

## 53-XXX-12C-MBCXNN

### Scope

This document establishes the specifications for a multimode, single 3mm central tube design with single armor and double polyethylene jacket suitable for direct burial, duct or lashed aerially.



### Applications

Outdoor duct/aerial lashed/direct burial

### Applicable Documents

TIA/EIA FOTP Standards 455

- Color Coding of Fiber Optic Cables

TIA/EIA-598

### Overall Cable Construction

- Buffer tube
- High Modulus Polymeric material.  
Dimension: 3.0 mm., nominal.  
Tube color: white  
Fiber color code: per TIA/EIA-598
- Filling compound: A non-toxic and dermatological safe antioxidant hydrocarbon based gel.
- Cable Core:  
The cable core consists of the buffer tube with a moisture resistant water-blocking tape applied over the tube to prevent water ingress and migration with a nominal of a 25% overlap.
- Cable strength  
Circumferential strength members are placed over the cable core and under the inner sheath.
- Inner Sheath  
Black Polyethylene  
Moisture Resistance  
A moisture resistant water-blocking tape applied over the inner sheath to prevent water ingress and migration with a nominal of a 25% overlap.  
Steel Armor Tape  
Tape is flexible steel with plastic coating for bonding to sheath. The armor of each length of cable shall be electrically continuous with no more than one joint or splice allowed per kilometer of cable.
- The breaking strength of any section of an armor tape containing a factory splice joint, shall not be less than 80% of the breaking strength of an adjacent section of the armor of equal length without a joint.
- A ripcord is applied under the armor tape.
- Outer Sheath  
Black Polyethylene (UV Resistant).  
Wall thickness (nominal): 1.52mm.



#### CABLE MARKINGS

REMFO 53 SERIES, FIBER OPTIC CABLE, No. of Fibers-50/125, REMEE PRODUCTS CORP., MM/YY (Month & Year of Manufacture), Sequentially meter marked.

#### Fiber Attenuation

$\leq 3.2 / 1.0$  dB/km

#### Fiber Bandwidth

$\geq 200 / 600$  MHz-km

#### Mechanical & Environmental Performance

Maximum Tensile Load for:  
- Installation: 1335N / 300lbf  
- Long Term: 600N / 135lbf  
Minimum bending radius:  
- Loaded: 20 x diameter  
- Unloaded: 10 x diameter  
Crush Resistance: 440N/cm

Impact Resistance: 25 Impacts (min.)  
Flexing,  $\pm 90^\circ$ : 25 Cycles (min.)  
Temperature rating:  
Operation,  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$   
Installation,  $-40^\circ\text{C}$  to  $+55^\circ\text{C}$   
Storage,  $-50^\circ\text{C}$  to  $+70^\circ\text{C}$

#### 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.

#### Warranty Info

All warranty information can be viewed at [www.remee.com](http://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.