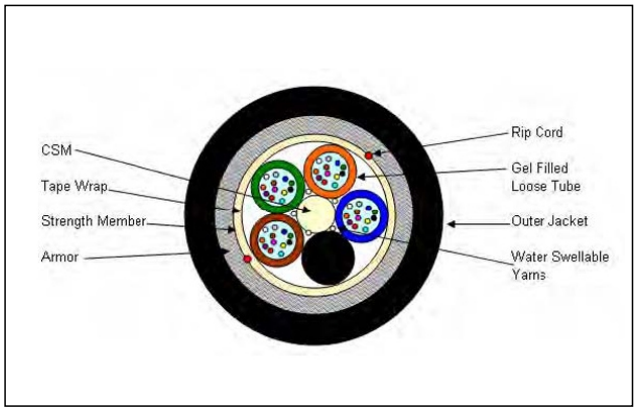
Part No.: 28-XXX-12C-EBSXWN

28 Series Loose Tube Single Jacket Single Armor 50Micron MM 1Gig



Scope

This document establishes the specifications for an outdoor, direct burial, armored fiberoptic cable, in a dry block loose buffer tube design.

Applications

Outdoor duct/aerial lashed/direct burial

Applicable Documents

TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- RUS 1755.900
- GR-20-CORE

Overall Cable Construction

- Buffer tube
- High Modulus Polymeric material.

Dimension: 2.8 mm., nominal.
Tube and fiber color code per EIA/TIA-598 or as specified by customer.

- Filling compound: A non-toxic and dermatological safe antioxidant hydrocarbon based gel.

Dielectric Central strength member.
Epoxy glass rod with an up-coat of polymer (if necessary per construction).

- Water swellable yarns are to be pulled in with the CSM.
- Cable Core:

The cable elements are stranded around the CSM, using reverse oscillation.
Moisture Resistance: A water blocking tape is applied over the cable core to prevent water ingress and migration with a nominal of 25% overlap.

- Non-wicking binder yarns are applied over the core tape.

Cable strength
Circumferential strength members are placed over the cable core and under the armored tape.

- Steel Armor tape
  Corrugated 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 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

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UV Resistant Black Polyethylene

- Cable Markings
  REMFO 28 SERIES, FIBER OPTIC CABLE, # of fibers-50/125, REMEE PRODUCTS CORP., MM/YY (Month & Year of manufacture), Sequentially meter marked. Special print as required by customer.

Fiber Attenuation

<=3.0 /1.0 dB/km

Fiber Bandwidth

>=500/500MHz-km

Mechanical & Environmental Performance

Maximum Tensile Load for:
- Installation: 2700N / 607lbf
- Long Term: 890N / 200lbf

Minimum bending radius:
- Loaded: 20 x diameter
- Unloaded: 10 x diameter

Crush Resistance: 440N/cm

Impact Resistance: 25 Impacts (min.)
Flexing, ±90°: 25 Cycles (min.)
Temperature Rating:
Operation, -40°C to +70°C
Installation, -40°C to +55±C
Storage, -50°C to +70°C
Twist Test: 25 Cycles (min.)

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.
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.

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