

1.0 SCOPE

This document establishes the specifications for an outdoor, singlemode OS1, single 3mm central tube design with a flame retardant PVC jacket.

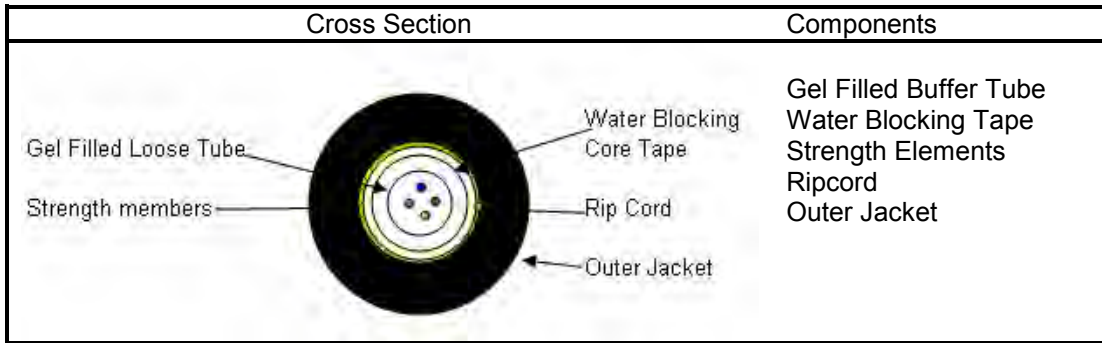
2.0 APPLICABLE DOCUMENTS

Reference Documents: TIA/EIA FOTP Standards 455
Color Coding of Fiber Optic Cables TIA/EIA-598

3.0 REQUIREMENTS

This document contains test values for all-important mechanical, optical, and environmental parameters and as such, is the basis for all-incoming inspection and acceptance.

4.0 CABLE CROSS SECTION



5.0 OVERALL CABLE CONSTRUCTION

5.1 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.

5.2 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.

5.3 Cable strength

Circumferential strength members are placed over the cable core and under the outer sheath.

5.4 Outer Sheath

UV Resistant Flame Retardant Black PVC
Wall thickness (nominal): 1.52mm.
A ripcord is applied under outer sheath.

5.5 Cable Markings

Indent printed- REMFO 57 SERIES, FIBER OPTIC CABLE, No. of Fibers-SM, REMEE PRODUCTS CORP., TELEPHONE HANDSET SYMBOL, MM/YY (Month & Year of Manufacture), Sequentially meter marked.

Note: This product is not OFNR, ETL or UL listed.

5.6 Nominal Cable Dimensions & Weights

Remeo Products Part Number	No. of Fibers	Cable OD (in.)	Cable OD (mm)	Weight LB/MFT	Weight KG/KM
57-002-76M-ABCBNN	2	.271	6.9	36	53
57-004-76M-ABCDNN	4	.271	6.9	36	53
57-006-76M-ABCFNN	6	.271	6.9	36	53
57-008-76M-ABCFNN	8	.271	6.9	36	53
57-010-76M-ABCJNN	10	.271	6.9	36	53
57-012-76M-ABCLNN	12	.271	6.9	36	53

6.0 FIBER CHARACTERISTICS

6.1 Physical Parameters

Fiber Type	Singlemode*
Maximum Attenuation @ 1310/1550nm	.40/.30 dB/km
Core Diameter, nominal	8.3 μ m
Cladding Diameter	125.0 \pm 1.0 μ m
Primary Coating Diameter	245 \pm 10 μ m
Maximum Dispersion Slope	0.092 ps/nm ² -km
Fiber Cutoff Wavelength	1150-1350nm
Cabled Cutoff Wavelength	<1260nm
Mode Field Diameter @ 1310nm	9.2 \pm 0.4 μ m
Mode Field Diameter @ 1550nm	10.5 \pm 1.0 μ m
Cladding Non-circularity	<1%
Core/Clad Offset	<.80 μ m
Zero Dispersion Wavelength	1300-1322nm
Numerical Aperture	0.13
Group Refractive Index @ 1310/1550nm	1.467/1.4675
Proof Test	100 kpsi

*According to ITU G.652b

7.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Maximum Tensile Load for:

Installation: 1335N / 300lbf

Long Term: 334N / 75lbf

Minimum bending radius:

Loaded: 20 x diameter

Unloaded: 10 x diameter

Crush Resistance: 220N/cm

Impact Resistance: 25 Impacts (min.)

Flexing, $\pm 90^\circ$: 25 Cycles (min.)

Temperature rating:

Operation, -40°C to +70°C

Installation, -20°C to +55°C

Storage, -40°C to +70°C

8.0 PREPARATION FOR DELIVERY

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.



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