1.0 SCOPE

This document establishes the specifications for an outdoor, heavy duty, singlemode OS1, central loose tube design with a PE jacket.

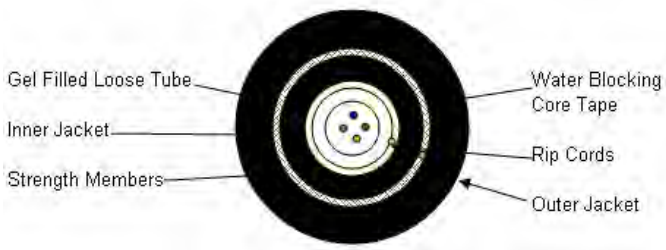
2.0 APPLICABLE DOCUMENTS

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

Cross Section	Components
	Gel Filled Buffer Tube Water Blocking Tape Ripcord Inner Jacket Strength Elements Ripcord Outer Jacket

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 Inner sheath
MD PE
A ripcord is applied under sheath.

5.4 Cable strength
Circumferential strength members are placed over the inner sheath and under the outer sheath.

5.5 Outer Sheath
UV Resistant Black MD PE.
Wall thickness (nominal): 1.52mm.
A ripcord is applied under outer sheath.

5.6 Cable Markings
Indent printed- REMFO 55 SERIES, FIBER OPTIC CABLE, XX (No. of Fibers)-SM, REMEE PRODUCTS CORP., MM/YY (Month & Year of Manufacture), sequentially marked.

5.7 Nominal Cable Dimensions & Weights

Remee Products Part Number	No. of Fibers	Cable OD (mm)	Cable OD (in.)	Weight KG/KM	Weight LB/1000ft
55-002-76M-MBCBNN	2	8.7	.341	60	40
55-004-76M-MBCDNN	4	8.7	.341	60	40
55-006-76M-MBCFNN	6	8.7	.341	60	40
55-008-76M-MBCHNN	8	8.7	.341	60	40
55-012-76M-MBCLNN	12	8.7	.341	60	40

6.0 FIBER CHARACTERISTICS

6.1 Physical Parameters

Fiber Type	Singlemode*
Maximum Attenuation @ 1310/1550nm	.40/.30 dB/km
Core Diameter, nominal	8.3 µm
Cladding Diameter	125.0 ± 1.0 µm
Primary Coating Diameter	245 ± 10 µm
Maximum Dispersion Slope	0.092 ps/nm^2-km
Fiber Cutoff Wavelength	1150-1350nm
Cabled Cutoff Wavelength	<1260nm
Mode Field Diameter @ 1310nm	9.2 ± 0.4µm
Mode Field Diameter @ 1550nm	10.5 ± 1.0µm
Cladding Non-circularity	<1%
Core/Clad Offset	<.80 µm
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: 2700N / 607lbf
- Long Term: 890N / 200lbf

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

Crush Resistance: 220N/cm

Impact Resistance: 25 Impacts (min.)
Flexing, ±90°: 25 Cycles (min.)
Temperature Rating:
- Operation, -40°C to +70°C
- Installation, -0°C to +70°C
- Storage, -40°C to +75°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.

Remee™ wire and cable
engineered with you in mind
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800 431-3864