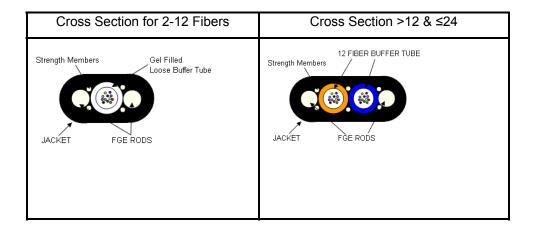


OSP LOOSE TUBE FIBER TO THE HOME CABLE PRODUCT SPECIFICATION 62FXXX74EEBCXSG

This document establishes the specifications for a self supporting single or dual central tube design with a polyethylene jacket typically used for fiber to the home or business. It contains test values for all-important mechanical, optical, and environmental parameters and as such, is the basis for all-incoming inspection and acceptance.

1.0 CABLE CROSS SECTION



2.0 OVERALL CABLE CONSTRUCTION

2.1 Buffer tube

High Modulus Polymeric material Dimension: 3.0 mm. nominal.

Tube and Fiber color code: per TIA/EIA-598

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

12 fibers per tube

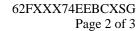
2.2 Cable Core

The cable core consists of the 1 or 2 buffer tubes, two fiberglass epoxy rods and fiberglass yarns.

2.3 Cable strength

Solid dielectric epoxy glass rods are pulled in longitudinal on each side of the loose tubes that are parallel to each other as well (see 1.0).

Dimension: 1.7mm





2.4 Outer Sheath

MD Black Polyethylene (UV Resistant) A ripcord is applied under outer sheath.

2.5 Cable Markings

Indent printed: CCT GROUP 62F, FIBER OPTIC CABLE, # of fibers-SM, TELEPHONE HANDSET SYMBOL, MM/YY (month and year of manufacture), sequentially meter marked. Special print as required by customer.

2.6 Nominal Cable Dimensions & Weights

CCT Part Number	No. of Fibers	Cable OD (in.)	Cable OD (mm)	Weight LB/MFT	Weight KG/KM
	2	` ,	` /		t
62F00274EEBCBSG	2	.180 x .330	4.6 x 8.4	27	40
62F00474EEBCDSG	4	.180 x .330	4.6 x 8.4	27	40
62F00674EEBCFSG	6	.180 x .330	4.6 x 8.4	27	40
62F00874EEBCHSG	8	.180 x .330	4.6 x 8.4	27	40
62F01274EEBCLSG	12	.180 x .330	4.6 x 8.4	27	40
62F01874EEBCXSG	18	.195 x .460	5.0 x 11.7	46	69
62F02474EEBCLSG	24	.195 x .460	5.0 x 11.7	46	69

3.0 FIBER CHARACTERISTICS

Physical Parameters

Fiber Type Single mode*
Maximum Attenuation @ 1310/1550nm 0.35/0.25 dB/km

Core Diameter 8.2 µm

Cladding Diameter $125.0 \pm 0.7 \,\mu m$

 $\begin{tabular}{llll} Maximum Core/Clad Concentricity Error & 0.5 \ \mu m \\ Maximum Cladding Non-circularity & 0.7\% \\ Primary Coating Diameter & 245 \pm 5 \ \mu m \\ Cabled Cutoff Wavelength & <1260nm \\ \end{tabular}$

Mode Field Diameter $9.2 \pm 0.4 \mu m$ @1310nm

Temperature Dependence $10.4 \pm 0.8 \mu \text{m } @ 1550 \text{nm}$ $\leq 0.05 \text{dB/km } (-60^{\circ}\text{C to } 85^{\circ}\text{C})$

Zero Dispersion Slope ≤0.892ps/nm²-km

Maximum PMD Link Design Value 0.06ps√km Group Refractive Index @ 1310/1550 1.467 / 1.468

Proof Test 100 kpsi

*According to ITU G.652 d



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4.0 MECHANICAL & ENVIRONMENTAL PERFORMANCE

Maximum Tensile Load for: Impact Resistance: 25 Impacts (min.)

Installation: 1375N / 310lbf Flexing, ±90°: 25 Cycles (min.)

Long Term: 413N / 93lbf Temperature rating:

Minimum bending radius: Operation: -40°C to $+70^{\circ}\text{C}$

Loaded: 20 x diameter Installation: -30°C to +70°C Unloaded: 10 x diameter Storage: -50°C to +70°C

Crush Resistance: 220N/cm

5.0 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.

6.0 APPLICABLE DOCUMENTS

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