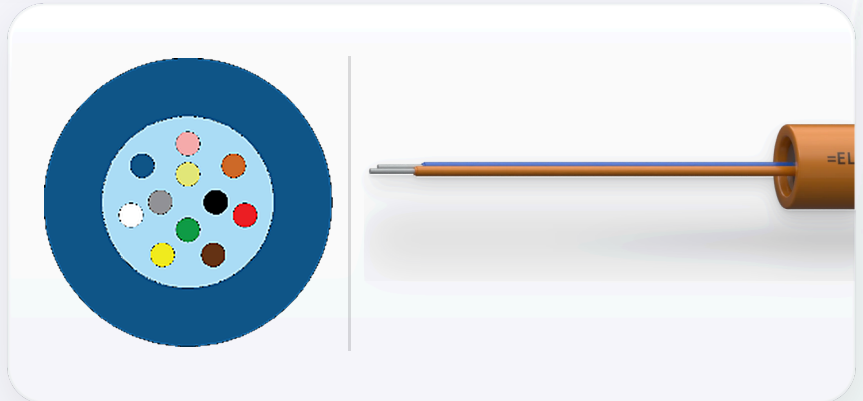


CABLES / FIBER OPTIC CABLES / MICRO ABF CABLE

2F MICRO ABF CABLE

E9/125 LG | Complying with ITU-T G.652D and G.657A1



CABLE CONSTRUCTION

CABLE COMPONENTS

- Loose Tube (Jelly Filled)
- Fiber

Fibers	2
Loose Tube (Jelly Filled)	PBTP material, with 2Fibers / loose tube (2.0 mm)

CABLE DESIGN

Jelly filled loose tube/filler MICRO ABF Cables.

FIBER COLOR CODING



TUBE COLOR CODING



*Other Colours can be arranged

APPLICABLE STANDARDS

IEC 60793, IEC 60794-1-2, ITU-T Recommendations, TIA/EIA-455 (FOTP)

CABLE MARKING

=EL Sewedy Cables= Year of Manufacturing = No. Of Fibers = G652.D/G657.A1 = Meter Marking.

TEMPERATURE RANGE

Operation	-10°C to 75°C
Relative Humidity	5% to 95%
Storage	-10°C to 60°C

CABLE MECHANICAL & ENVIRONMENTAL PROPERTIES

TESTS	SPECIFICATION	CONDITIONS	ACCEPTANCE CRITERIA
Temperature cycle	IEC 60794-1-22-F1	-20°C to +70°C, 1hr 2 cycle	Attenuation change < ±0.1 dB/km
Tensile Strength	IEC 60794-1-21-E1	Max 50 N; 10min	Attenuation change < ±0.1 dB/km
Crush	IEC 60794-1-21-E3	100 N/100mm; 10min.	Attenuation change < ±0.1 dB/km
Cable Bend Radius	IEC 60794-1-21-E11	10 × OD, No Load	Attenuation change < ±0.1 dB/km
Repeated Bending	IEC 60794-1-21-E6	15 × OD, 1kg, 5 cycle	Attenuation change < ±0.1 dB/km
Kink	IEC 60794-1-21-E10	10 × OD	No defect on fiber and sheath
WPT	IEC 60794-1-22-F5B	L=3mt, H=1mt, T=24hrs	No water leakage

FIBER SPECIFICATIONS**OPTICAL CHARACTERISTICS**

G.652D

Attenuation	1310nm	≤ 0.35-40 dB/km
	1550nm	≤ 0.22-25 dB/km
Dispersion @ 1285 - 1330nm / 1550nm	≤ 3.5 ps/(nm.km) / ≤ 18.0 ps/(nm.km)	
Polarization Mode Dispersion	≤ 0.2 ps/√km	
Cable cut-off wavelength (λ _{cc})	≤ 1260 nm	
Zero dispersion wavelength (λ _o)	1300 ≤ λ _o ≤ 1324 nm	
Zero dispersion slope (S _o)	So ≤ 0.092 ps/(nm ² ×km)	
Effective group index of refraction (N _{eff})	1310nm	1.4675
	1550nm	1.4681
Point Discontinuity	1310nm	≤ 0.1 dB
	1550nm	≤ 0.1 dB

GEOMETRICAL CHARACTERISTICS

G.652.D

Cladding Diameter	125±0.7 μm
Cladding Non-Circularity	≤1%
Coating Diameter	255±10 μm
Mode Field Dimeter @ 1310/1550 nm	9.2 ± 0.4 μm / 10.4 ± 0.5 μm
Core-Cladding Concentricity Error	≤0.6 μm

MECHANICAL CHARACTERISTICS

G.652D

Proof Test	≥ 1 % (100kpsi or 0.7 GPa)
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STANDARD CABLE LENGTH

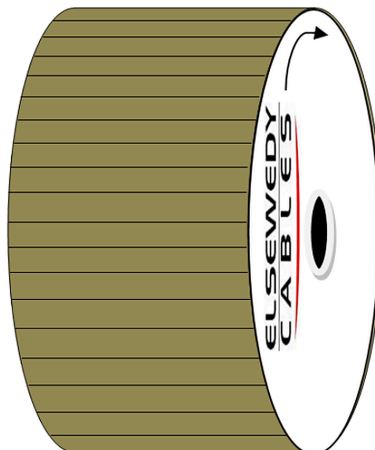
Standard Cutting Length: 4000mts ± 5% (5% of the total order quantity can be non standard length) Cutting Tolerance can be arranged upon request

DRUM MARKING

All necessary cable information shall be marked on the wooden drum outer flanges by using water proof Ink or water proof label or aluminum plate.

PACKAGING INFORMATION

The cable wooden drum shall be of the standard manufacturing length but special length if any can also be provided on customer request. The wooden drum barrel diameter shall not be less than 40 times of the nominal outer diameter of the cable. The cable ends shall be sealed with shrinkable end caps on both sides of the cable. The cable wooden drum is protected by whether proof sheet and wooden battens. The direction of rotation shall be marked on the drum flange..

**ORDERING INFORMATION**

PRODUCT REFERENCE	DESCRIPTION
SW24SBN700201-5	2F Micro ABF Cable, E9/125 LG Complying with ITU-T G.652D and G.657A1