in every bit of communication...

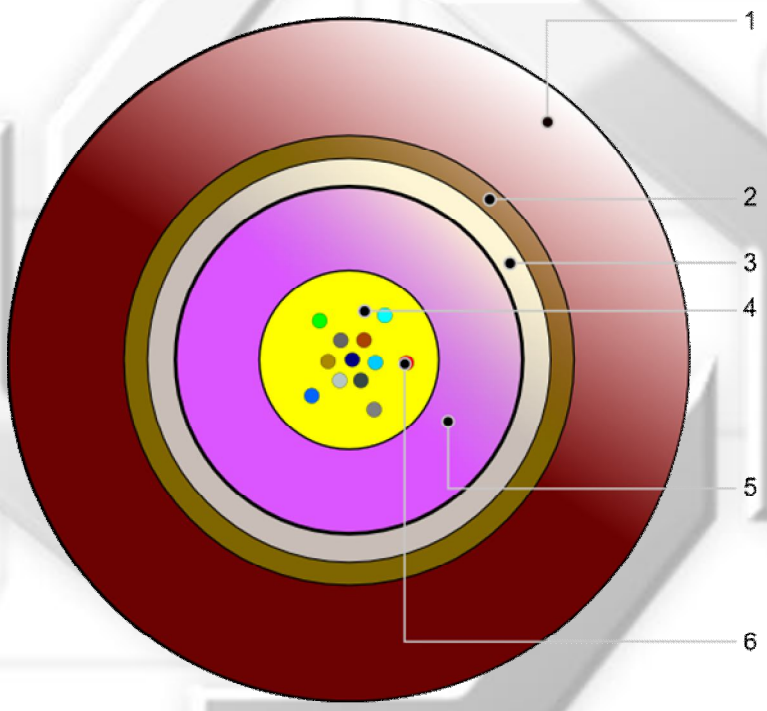
TECHNICAL DATA SHEET
SECTION 1
CABLE CONSTRUCTION
SM-SLT-SA-SJ-12FO
OUTDOOR
SINGLE MODE FIBER OPTIC CABLES with SINGLE JACKED and STEEL ARMOR

Characteristics	Offered by the Tenders
1. No of tubes / No of Fibers per tube 12 Fibers	1 Tube
2.Central Strength member	Not Used
3.Loose tubes -Material -Outer Diameter -Type of filling compound	 - Polybuteneterephteleta (PBT) - approx. 2.2 mm - Thyrotrophic jelly
4. Filler dia-material	- No Filler
5. Tube assembly -Tube layout	 - Central / Single Loose Tube
6. Flooding compound -Material	 - Petroleum Jelly
7. Core wrapping	- Not Used
8. Dielectric Strength Member	- Glass Yarns as rodent protection
9.Rip cords	- Rip cord will be applied longitudinally to open cable easily
10. Armoring -Material and Thickness	- Co polymer coated Corrugated steel tape - 0,16
10.Outer Sheath - Color -Material and Thickness	- HDPE (UV Resistance) - Black - With approx. 1,5 mm thickness
11.Length marking	- White, hot stamping
12.Identification	Name of Manufacturer, Year of Manufacture, code of cable + Meter Marking
13.Drum Length	2000 meters ± 5 %
14. Cable weight (kg/km)	Approx. 90 Kg/Km
15. Outer Diameter of cable	Approx. 8.5 mm.
16. Test results of Mechanical characteristics -Tensile strength -Operating temperature/humidity range	 - 1200 N - -30 degree to 70 degree

SECTION 2
Attenuation for cable

Ref (nm)	Max. Increased (dB/km)
1310	0,36 (dB/km)
1550	0,22 (dB/km)

SECTION 3
TECHNICAL DRAWING OF CABLE CONSTRUCTION



1. **Outer Sheath**
2. **Corrugated Steel Tape**
3. **Glass Yarn**
4. **Filling Material**
5. **Central Tube**
6. **Optical Fiber**

TECHNICAL DATA SHEET
SECTION 4
OPTICAL FIBER SPECIFICATION
SINGLE MODE

Characteristics	Offered by the Tenders
1. Fiber material -Core -Cladding -Coating	Single mode, complying with ITU-T G 652 D recommendation. - 9.2 ± 0.6 um High grade silica - 125.0 ± 1.0 um silica cladding - 242 ± 7 um UV cured acrylate based coating
2. Geometrical specification -Mode field diameter (1310 nm) -Mode field diameter (1550 nm) Cladding diameter -Primary coating diameter -Mode field concentricity error -Cladding non-circularity -Cladding concentricity error -Coating non-circularity	 - 9.2 ± 0.4 um - 10.4 ± 0,5 um - 125.0 ± 0,71 um - 245 ± 10 um - < 1.2 um - % ≤ 1.0 - ≤ 0.6 um - ≤ 6 %
3. Optical and performance specification -Attenuation at 1310 nm (dB/km) -Attenuation at 1550 nm (dB/km) -Fiber cut-off wavelength -Cable cut-off wavelength - Chromatic dispersion coefficient at 1550 nm - Chromatic dispersion coefficient at 1285 to1330 nm - Zero dispersion wave length	 - 0.34 dB/km - 0.21 dB/km - 1250 – 1270 Nm - ≤ 1260 nm - ≥ 17,5 ps/nm.km - ≥ 3,2 ps/nm.km - 1300 nm≤ -1322 nm