

DESCRIPTION:

- Single mode optical fibers
- Dielectric central member
- Filled loose tubes with 6 or 12 fibers
- water blocking threads
- Sealed aluminum tube
- Protective layer of aluminum clad steel wires, with a diameter of 2.7mm



APPLICATION:

Electrical power lines with optical fibers for utility operation or long haul data/telephony.

OPERATION TEMPERATURE:

- 40 °C a + 70 °C

FEATURES:

- Fiber for full spectrum operation, 1280 nm to 1625 nm
- Coefficient of thermal expansion: $1.67 \times 10^{-5} / ^\circ\text{C}$
- Lengths of 4400 m, 6300m or according to project, in wood reels. All with $\pm 1\%$ tolerance

CERTIFICATION:

UL A12354 for Quality Assurance System according to ISO-9001; 2000

REFERENCE SPECIFICATION:

ITU T-G.652.D
IEC 60794-4-1
IEEE 1138
EIA/TIA 598 (color code)

FIBER CHARACTERISTICS

Attenuation Maximum	λ with zero dispersion (λ_0)	Chromatic dispersion	Dispersion slope (S_0)	PMD Coefficient	Propagation mode Diameter	Cladding: a) diameter b) ovality	Primary protection diameter	Eccentricity a) Core b) Cladding
dB/km	nm	ps/(nm•km)	ps/(nm ² •km)	ps/(km) ^{1/2}	μm		μm	μm
0.35 @ 1310 nm	1310 to 1324	≤ 18 @ 1550 nm	0.089	< 0.2	9.4 ± 0.4 @ 1310 nm	a) 125 ± 0.7μm b) ≤ 0.7%	245 ± 5	a) ≤ 0.5
0.35 @ 1380 nm		≤ 23 @ 1625 nm			10.6 ± 0.5 @ 1550 nm			b) ≤ 12
0.20 @ 1550 nm								

CABLE CHARACTERISTICS

Fiber count	Outside diameter	Net weight	Maximal stringing force	Maximal operation tension	Maximal Allowed tension	CD resistance @ 20°C	Short circuit test	Elasticity module	Lightning test	Minimal radius during installation
	mm	kg/km	N	N	N	mΩ/km	kA ² s	GPa	Coulombs	cm
≤ 48	14.65	585	1,200	25,000*	45,000	600	87	90	100	30 (12")

* Maximal long term tension without in fiber strain

Nominal dimensions, subject to manufacturing tolerance

Shown data are for standard product, we can design cables for your particular specification or application.