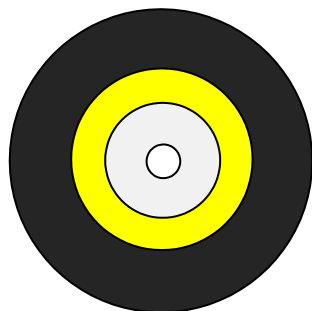


Outdoor Drop Cable Specification

Cable Design

Drop Cable-Aramid Yarn Reinforcing-Dielectric-Tight Buffered G.657A2 Fiber



- **Tight Buffered Fiber:** G.657A2 fiber tight buffered to 900 μ m.
- **Aramid yarns:** additional strength member.
- **Outer Sheath:** Black HFFR/LSZH.

Cable Specification

Cable Cores		1	2
Nominal Cable Diameter	mm	3.0 $\pm$ 0.2	4.0 $\pm$ 0.2
Nominal Cable Weight	Kg/km	8.5	10

Cable Application

Temperature Range		Minimum Bend Radius	
Transportation & Storage	-20 $\sim$ +70 $^{\circ}$ C	Load	20 $\times$ D
Operation	-10 $\sim$ +70 $^{\circ}$ C	Unload	10 $\times$ D

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	500N, 1min	Fiber strain $\leq$ 0.4%, no damage
Crush	IEC 60794-1-2-E3	2200N/10cm, 1min	$\triangle$ α reversible, no damage
Impact	IEC 60794-1-2-E4	1J, 3impacts	$\triangle$ α reversible, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20D, 20N, 20cycles	$\triangle$ α reversible, no damage
Bend	IEC 60794-1-2-E11	R=10D, 4turns, 5cycles	$\triangle$ α reversible, no damage
Torsion	IEC 60794-1-2-E7	20N, 10cycles, $\pm$ 180 $^{\circ}$	$\triangle$ α reversible, no damage
Temperature Cycling	IEC 60794-1-2-F1	-10 $\sim$ +70 $^{\circ}$ C, 2cycles, 8h	$\triangle$ α reversible, no damage

Fiber & Tube Color

Color Identification of Tight Buffered Fiber

Number	1
Color	White

Cabled Fiber Performance (G.657A2)

Characteristics		Acceptance Value
Attenuation	@1310nm	$\leq 0.40\text{dB/km}$
	@1550nm	$\leq 0.25\text{dB/km}$
Mode Field Diameter	@1310nm	$8.8 \pm 0.4\mu\text{m}$
Dispersion	@1300+30/-15nm	$\leq 3.5\text{ps}/(\text{nm} \cdot \text{km})$
	@1550nm	$\leq 18\text{ps}/(\text{nm} \cdot \text{km})$
	@1625nm	$\leq 22\text{ps}/(\text{nm} \cdot \text{km})$
Macrobend loss	$\Phi 15\text{mm}$, 1 turn, @1550nm	$\leq 0.50\text{dB}$
	$\Phi 20\text{mm}$, 1 turn, @1550nm	$\leq 0.10\text{dB}$
	$\Phi 15\text{mm}$, 1 turn, @1625nm	$\leq 1.0\text{dB}$
	$\Phi 20\text{mm}$, 1 turn, @1625nm	$\leq 0.2\text{dB}$
Zero-Dispersion wavelength		$1300\text{nm} \sim 1324\text{nm}$
Zero-Dispersion slope		$\leq 0.092\text{ps}/(\text{nm}^2 \cdot \text{km})$
Cable cutoff wavelength $\lambda_{cc}(\text{nm})$		$\leq 1260\text{nm}$
Cladding diameter		$125 \pm 0.7\mu\text{m}$
Cladding non-circularity		$\leq 0.7\%$
Core/cladding concentricity error		$\leq 0.5\mu\text{m}$
Fiber diameter with coating (uncolored)		$242 \pm 5\mu\text{m}$
Cladding/coating concentricity error		$\leq 12.0\mu\text{m}$
Proof stress		$\geq 0.69\text{GPa}(100\text{kpsi})$
Dynamic stress corrosion susceptibility parameter (typical value)		≥ 20

Sheath Marking

The outer sheath is marked in 1 meter intervals as follows:

According to Customer's Requirements

Delivery Lengths

Standard delivery length will be 2km.