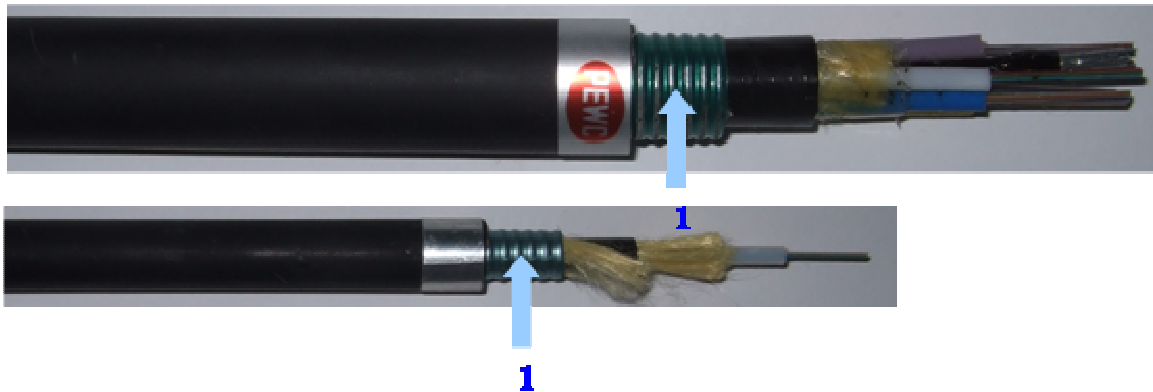


Armored Fiber Optic Cable

Application : For long haul networking, building interconnections (Campus LAN), trunk lines, local loop, distribution line or intra-building backbones. Armored loose tube double Jacket/single Armor fiber optic cables are designed to provide high fiber counts with the flexibility and versatility required for most demanding installations, including direct buried. Uses steel tape armoring for maximum crush resistance.

Construction :



- ❶ Armored sheath-The armored consists of one layer of Laminated ECCS tape.

Features and Benefits :

- ◆ Constructure of Cable core: (Option)
 - Stranded loose tube cable
 - Drop cable
 - Ribbon Slotted Core Cable
 - Non-Metallic Stranded loose tube cable

Specification : 6C~288C , Detail specification

1. Configuration

| | | | | | |
|----------------------------|----|---------------------------|------------|---------------------------|--|
| Constructure of Cable core | | Stranded loose tube cable | Drop cable | Ribbon Slotted Core Cable | Non-Metallic Stranded loose tube cable |
| Inner Sheath | mm | 1.0 | 0.6 | 1.0 | 1.0 |
| LEP Sheath | mm | 2.0 | 1.8 | 2.0 | 2.0 |

2. Application

| | |
|--|---|
| Temperature Range | Minimum Bending Radius |
| Transportation&Storage: -30~+60°C Installation: 0~+60°C Operation: -30~+60°C | Under Maximum Tension : 20×Cable- ϕ Without Tension: 10×Cable- ϕ |

3. Mechanical and Environmental Characteristics :

| Test | Test Standard | Specified Value | Acceptance Criteria |
|-------------------------------------|--------------------------------------|---|--|
| Tensile Loading and Bending Test | EIA-455-33A | Mandrel diameter: 20D (D = cable diameter) Tensile load: 273kgf for 10 minutes | (1) Attenuation Increment ≤ 0.2 dB (2) No jacket cracking and fiber breakage |
| Cyclic Flexing Test | TIA/EIA-455-104A | Sheave diameter: 20D (D=cable diameter) No. of flexing cycles: 25 cycles Flexing speed: 30 cycles/minute | |
| Repeated Impact Test | TIA/EIA-455-25B | Height of impact: 150mm No. of impact cycles: 20 cycles Cycle speed: 30±1 cycle/min. | |
| Cable Twist Test | TIA/EIA-455-85A | Cable length twisted: 4m No. of twist cycles: 10 cycles for 10 min. Twist angle: ±180°/cycle | |
| Compressive Loading Resistance Test | TIA/EIA-455-41A | Applied load: 4.54kgf/mm Duration of loading: 10 minutes Load length: more than 100 mm Compressive speed: 2.54 mm/min. | |
| Water Penetration | TIA/EIA-455-82B/ IEC 60794-1-2F5B | Length of specimen: 1m Height of pressure head: 1m Test time: 4 hours | |

This section shall be performed at 1550nm.

4. Optical Characteristics

4.1 Maximum Attenuation

| Wavelength | Attenuation(dB/km) |
|------------------|---|
| 1260nm | ≤ 0.45 |
| 1310nm | ≤ 0.40 |
| 1383nm \pm 3nm | ≤ 0.35 |
| 1550nm | ≤ 0.25 (90%) ≤ 0.30 (100%) |
| 1625nm | ≤ 0.35 |

4.2 Chromatic Dispersion

| Wavelength | Specification (ps/km-nm) |
|------------|--------------------------|
| 1260nm | ≤ 6.21 |
| 1310nm | ≤ 1.14 |
| 1383nm | ≤ 7.05 |
| 1550nm | ≤ 18.21 |
| 1625nm | ≤ 22.31 |

4.3 Polarization Mode Dispersion , PMD

| | |
|---|---------------------|
| Individual Polarization Mode Dispersion | 0.2 ps / \sqrt km |
| Linked Polarization Mode Dispersion , PMD _Q 20 Cables(M = 20) 0.01% Probability level(Q = 0.01%) | 0.1ps / \sqrt km |

4.4 Cut-off Wavelength of Cabled : Less than 1260nm ◦

4.5 Mode Field Diameter

| | |
|--------|-------------------------------------|
| 1310nm | 9.0~9.4 μ m \pm 0.4 μ m |
| 1550nm | 10.0~10.7 μ m \pm 0.7 μ m |

5. Identification

5.1 Sheath Colour: Black

5.2 Sheath Marking

PACIFIC 《year of manufacture》 《Cable type and fiber count》 《length marking in meter》

6. Packing

Metal or Wooden drums with protection.

7. Delivery Lengths

Standard delivery length are 2000 meters.