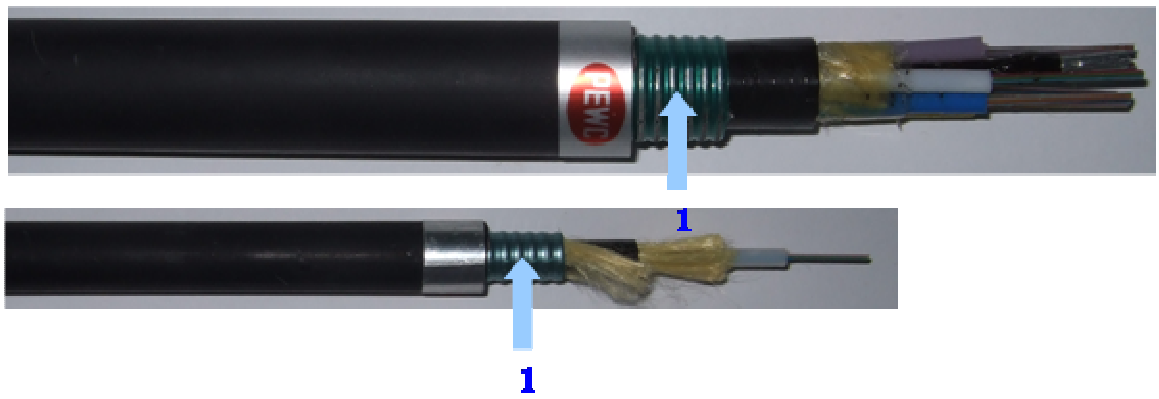
Armored Fiber Optic Cable

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℃ Installation: 0~+60℃ Operation: -30~+60℃	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	No leakage through the open cable end

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±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 /√km
Linked Polarization Mode Dispersion，PMD_Q 20 Cables(M＝20) 0.01% Probability level(Q＝0.01%)	0.1ps /√km

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

4.5 Mode Field Diameter

1310nm	9.0～9.4μm±0.4μm
1550nm	10.0～10.7μm±0.7μm

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.