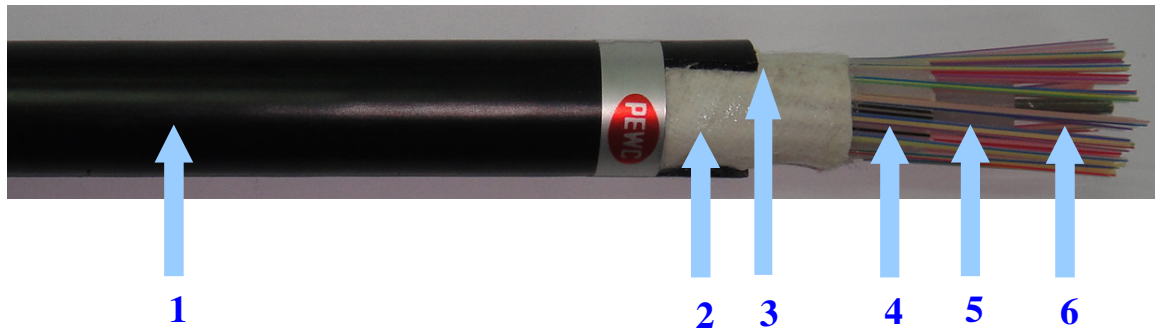


Slotted Ribbon Type Fiber Optic Cables

Application : Primarily for carrier-class fixed line, mobile communications networks, CATV fiber-optic backbone network, used for the core and aggregation network and access network for base stations connected.

Construction :



- ❶ LAP sheath
- ❶ Water blocking tape
- ❸ Ripcord
- ❹ 4-fiber ribbon
- ❺ Slotted core
- ❻ Center strength member(CSM)

Features and Benefits :

- ◆ CSM: Could provide efficient tension for cable.(Option)
 - Galvanized steel wire
 - FRP Rod (Non-metallic type for power line system)
- ◆ PE Slotred Core: HD Polyethylene extrusion.
- ◆ Stranding: Accommodate the 4-fiber ribbon into grooves of slotted core.
- ◆ Longitudinal Water Tightness: Water blocking tape be used, totally dry core enhance operation for splicing.
- ◆ Ripcord: Aramid yarn thread allows easy sheath removal.
- ◆ Sheath: (Option)
 - LAP sheath: Laminated Aluminum sheath for moisture berry.
 - PE sheath

Specification : 4C~300C , Detail specification

1. Configuration

No. of Fibers	Unit	4~100	200	300
Ribbon No.	NO	25	50	75
CSM- ϕ	mm	2.6	2.6	2.6
Slotted Core- ϕ	mm	9	14	16
Slotted No.	mm	5	10	15
LAP Outer sheath	mm	1.7	1.7	1.7
Cable Diameter	mm	14	19	21
Cable weight(App.)	kg/m	0.12	0.25	0.33

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 Performance	IEC 60794-1-2E1	Mandrel diameter: 20D (D = cable diameter) Tensile load: 100C: 200kgf for 30 minutes 200C/300C:273 kgf for 30 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 $\pm$ 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: $\pm 180^\circ$ /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	IEC 60794-1-2F5A	Length of specimen: 100C: 3.1m 200/300C: 6.1m Height of pressure head: 1m Test time: 24 hours	No leakage through the open cable ends

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 ± 3 nm	≤ 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 / $\sqrt{\text{km}}$
Linked Polarization Mode Dispersion , PMD _Q 20 Cables(M= 20) 0.01% Probability level(Q=0.01%)	0.1ps / $\sqrt{\text{km}}$

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

4.5 Mode Field Diameter

1310nm	9.0~9.4 $\mu\text{m} \pm 0.4\mu\text{m}$
1550nm	10.0~10.7 $\mu\text{m} \pm 0.7\mu\text{m}$

5. Identification

5.1 Ribbon code

Fiber No. Ribbon No.	Fiber NO. Colour			
	1	2	3	4
I	Blue	White	White	Pink
II	Yellow	White	White	Pink
III	Green	White	White	Pink
IV	Red	White	White	Pink
V	Violet	White	White	Pink

5.2 Configuration of Ribbons

4~100

Slot No. Fiber Count	Ribbon No.				
	1	2	3	4	5
4	I				
8	I	II			
12	I	II	III		
16	I	II	III	IV	
24	I~II	III	IV	V	I
48	I~V	I~V	I~II		
72	I~V	I~V	I~V	I~III	
100	I~V	I~V	I~V	I~V	I~V

200、300

Slot No. Fiber Count	Ribbon No.														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
200	I	I	I	I	I	I	I	I	I	I					
	~	~	~	~	~	~	~	~	~	~					
	V	V	V	V	V	V	V	V	V	V					
300	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V

5.3 Sheath Colour: Black

5.4 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.