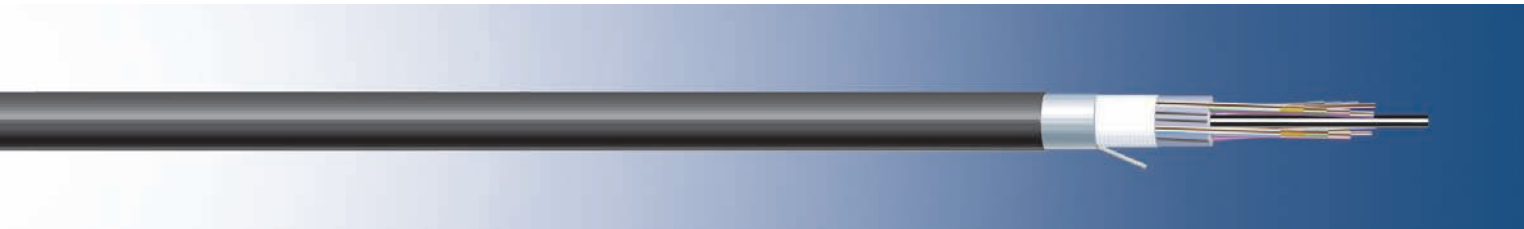


Optical Fiber Ribbon Slotted Core Cable

**(Laminated Aluminum Polyethylene Sheath Structure
for Duct Application)**



Laminated Aluminum Polyethylene Sheath Stru



Outline

Accommodating the 4-fiber ribbon into grooves of slotted core.

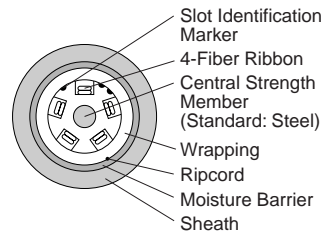
Features & Advantages

- Using 4-fiber ribbon
- Cost-effective mass fusion splicing
- Totally dry core enhance operation for splicing
- Proven slotted core design provides outstanding optical fiber protection
- Small cable diameter for ease of handling and installation
- Aluminum tape provides additional moisture barrier
- Ripcord allows easy sheath removal

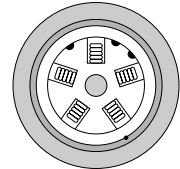
*Remarks

Cross Sectional View of WB Cable

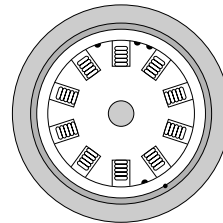
40 Fibers



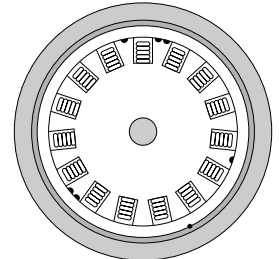
100 Fibers



200 Fibers



300 Fibers



Laminated Aluminum Polyethylene Sheath Stru



Outline

Accommodate the 8-fiber ribbon into grooves of slotted core.

More high-density compare to 4-fiber ribbon slotted core cable.

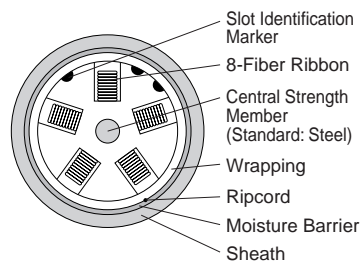
Features & Advantages

- Using 8-fiber ribbon
- More cost-effective mass fusion splicing
- Totally dry core enhance operation for splicing
- Proven slotted core design provides outstanding optical fiber protection
- Small cable diameter for ease of handling and installation
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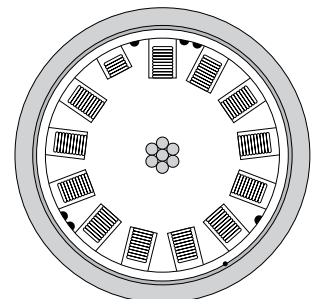
*Remarks

Cross Sectional View of WB Cable

400 Fibers



1000 Fibers



*Remarks

- NM strength member is also available
- Various types of sheaths are available - Armored cable - FR cable
- Stripe(s) on the sheath for discernment (Optional)

* Abbreviation WB: Water Blocking NM: Non-Metallic LAP: Laminated Aluminum Polyethylene FR: Flame Retardant

Structure for Duct Application (4-Fiber Ribbon)

Specification (4-Fiber Ribbon)

| Item | | Description | | | |
|----------------------------------|--|-------------------------------------|----------|-----------|-----------|
| Fiber Count | | 40 | 100 | 200 | 300 |
| Ribbon | Type | 4-Fiber Ribbon | | | |
| | Number | 10 | 25 | 50 | 75 |
| Central Strength Member | Material | Steel Wire | | | |
| | Number and Diameter of Strands (Nominal) | 1 / 1.8mm | | 1 / 2.0mm | 1 / 2.3mm |
| Slotted Core | Material | Polyethylene | | | |
| | Diameter (Approx.) | 6.0mm | 8.0mm | 11.5mm | 15.5mm |
| | Slot Identification | Stripes, Black Color | | | |
| Wrapping | Material | Water Blocking Tape(s) | | | |
| Ripcord | Material | Plastic Thread(s) | | | |
| Moisture Barrier | Material | Aluminum Tape with Polymer Coating | | | |
| Sheath | Material | Polyethylene, Black Color | | | |
| | Thickness (Nominal) | 1.70mm (Including Moisture Barrier) | | | |
| Overall cable Diameter (Approx.) | | 11.5mm | 13.5mm | 17.5mm | 21.0mm |
| Cable Weight (Approx.) | | 120kg/km | 150kg/km | 235kg/km | 345kg/km |
| Maximum Pulling Tension | | 1040N | | 1290N | 1710N |
| Minimum Bending Radius | Static | 115mm | 130mm | 175mm | 210mm |
| | Dynamic | 230mm | 270mm | 350mm | 420mm |
| Operating Temperature Range | | -30°C ~ +70°C | | | |

Manufacturer may use additional suitable tape(s), thread(s) or filler(s) for manufacturer's reason.

The identification marking shall be applied on a suitable place.

- 1) Manufacturer's name and/or trademark
- 2) Year of manufacture

Length marking shall be printed on the cable sheath in one-meter interval.

Structure for Duct Application (8-Fiber Ribbon)

Specification (8-Fiber Ribbon)

| Item | | Description | |
|----------------------------------|--|-------------------------------------|-------------------------------------|
| Fiber Count | | 400 | 1000 |
| Ribbon | Type | 8-Fiber Ribbon | |
| | Number | 50 | 125 |
| Central Strength Member | Material | Steel Wire | Steel Wire Strand |
| | Number and Diameter of Strands (Nominal) | 1 / 2.6mm | 7 / 1.2mm |
| Slotted Core | Material | Polyethylene | |
| | Diameter (Approx.) | 15.0mm | 24.5mm |
| | Slot Identification | Stripes, Black Color | |
| Wrapping | Material | Water Blocking Tape(s) | |
| Ripcord | Material | Plastic Thread(s) | |
| Moisture Barrier | Material | Aluminum Tape with Polymer Coating | |
| Sheath | Material | Polyethylene, Black Color | |
| | Thickness (Nominal) | 1.70mm (Including Moisture Barrier) | 2.00mm (Including Moisture Barrier) |
| Overall cable Diameter (Approx.) | | 20.5mm | 30.5mm |
| Cable Weight (Approx.) | | 330kg/km | 705kg/km |
| Maximum Pulling Tension | | 2180N | 2710N |
| Minimum Bending Radius | Static | 300mm | 305mm |
| | Dynamic | 600mm | 610mm |
| Operating Temperature Range | | -30°C ~ +70°C | |

Manufacturer may use additional suitable tape(s), thread(s) or filler(s) for manufacturer's reason.

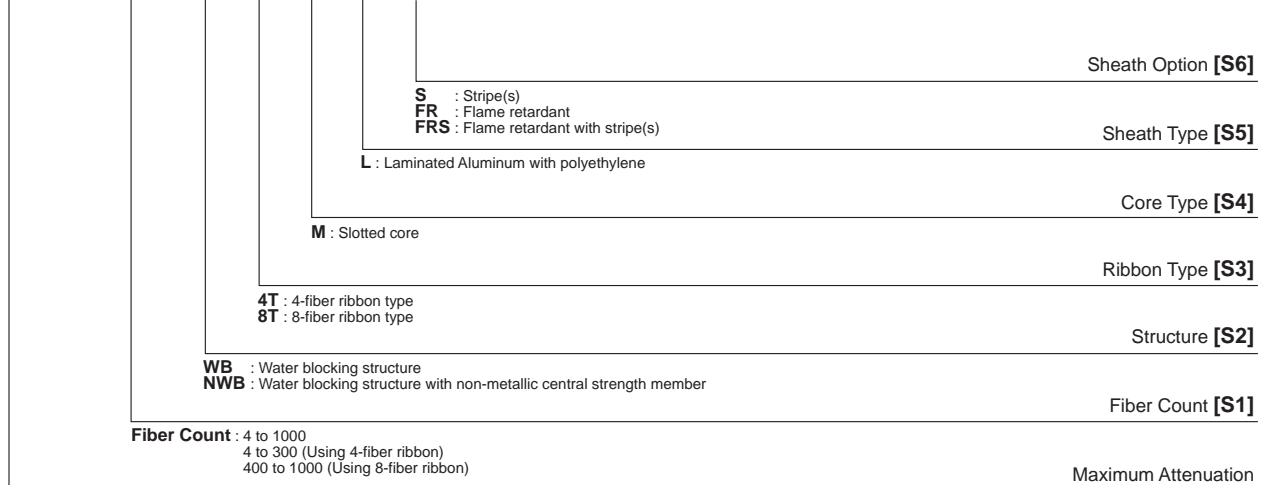
The identification marking shall be applied on a suitable place.

- 1) Manufacturer's name and/or trademark
- 2) Year of manufacture

Length marking shall be printed on the cable sheath in one-meter interval.

Ordering Information

S-045-030 × [S1] / [S2] [S3] [S4] [S5] [S6]



S : Single mode optical fiber
045 : 0.45 dB/km @ 1310nm
030 : 0.30 dB/km @ 1550nm

Example

S-045-030×100/WB4TMLS:
 100 single mode optical fiber slotted core cable,
 Steel wire for central strength member, water blocking structure, LAP sheath with stripe(s).

Please contact us for additional fiber and options.

————— *ISO 9001 Certified Manufacturer* —————



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