

FITEL

Optical Fiber Ribbon Slotted Core Cable

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



FURUKAWA ELECTRIC

Laminated Aluminum Polyethylene Sheath Stru

Outline

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

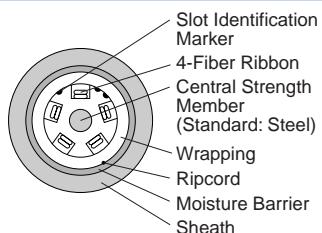
Features & Advantages

- 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

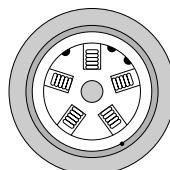
*Remarks

Cross Sectional View of WB Cable

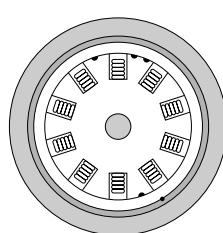
40 Fibers



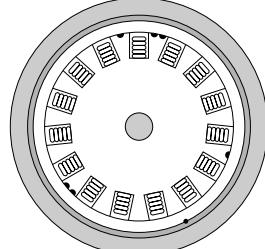
100 Fibers



200 Fibers



300 Fibers



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Outline

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

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

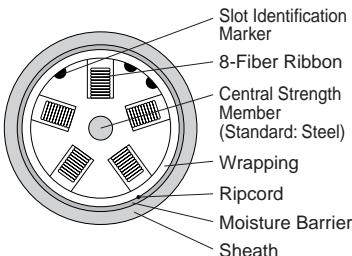
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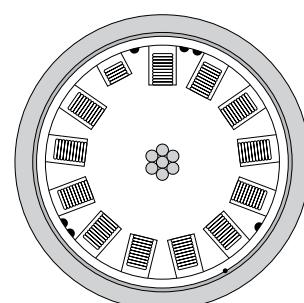
*Remarks

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.

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

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

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.

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

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

Ordering Information

S-045-030	x [S1] / [S2] [S3] [S4] [S5] [S6]	
		Sheath Option [S6]
	FR : Stripe(s) FR : Flame retardant FRS : Flame retardant with stripe(s)	Sheath Type [S5]
	L : Laminated Aluminum with polyethylene	Core Type [S4]
	M : Slotted core	Ribbon Type [S3]
	4T : 4-fiber ribbon type 8T : 8-fiber ribbon type	Structure [S2]
	WB : Water blocking structure NWB : Water blocking structure with non-metallic central strength member	Fiber Count [S1]
	Fiber Count : 4 to 1000 4 to 300 (Using 4-fiber ribbon) 400 to 1000 (Using 8-fiber ribbon)	Maximum Attenuation
S	: Single mode optical fiber	
045	: 0.45 dB/km @ 1310nm	
030	: 0.30 dB/km @ 1550nm	

Example

S-045-030x100/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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Furukawa Electric reserves the right to improve, enhance and modify the features and specifications of this product without prior notification.

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