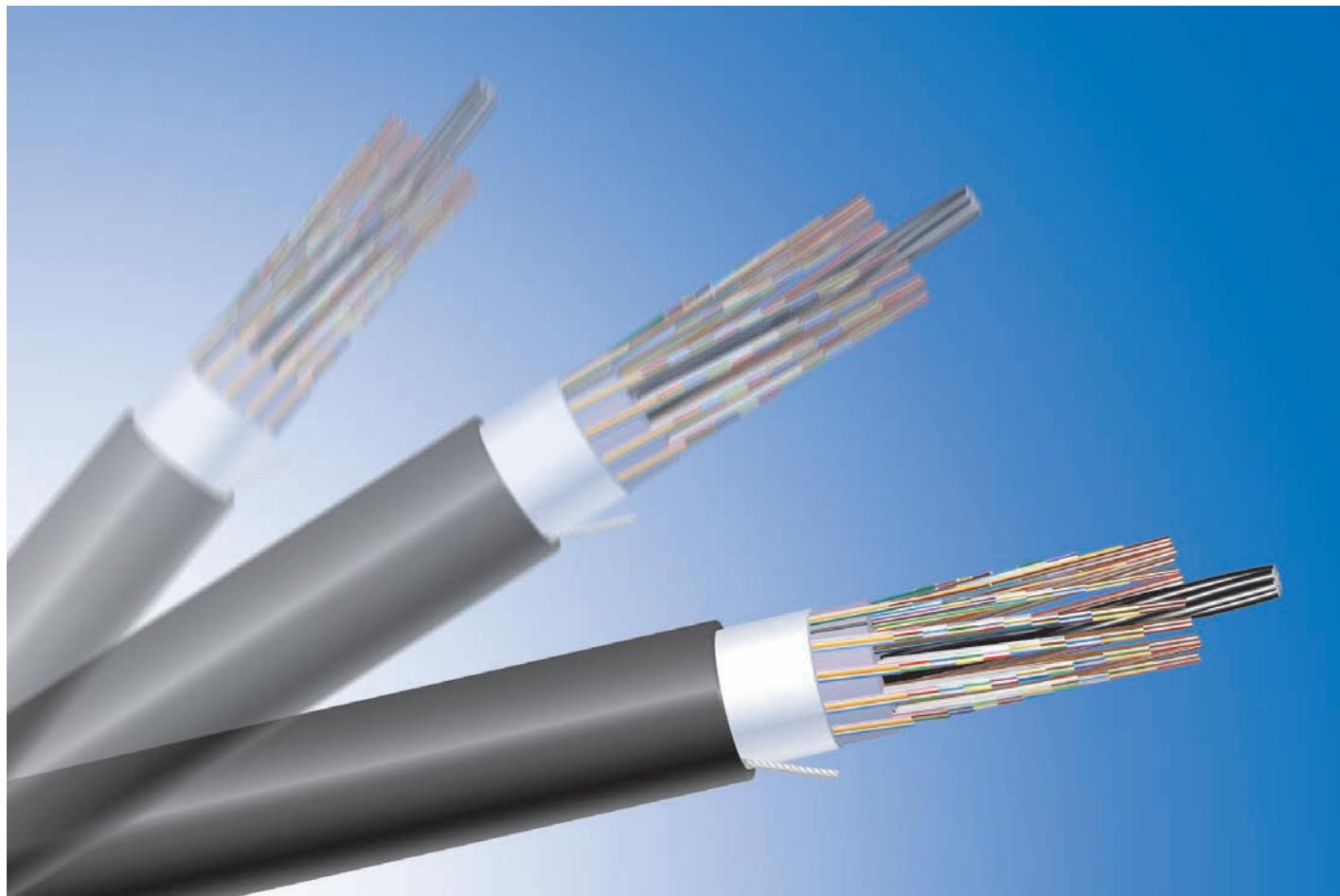


**FITEL**

# **Optical Fiber Ribbon Slotted Core Cable**

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



**FURUKAWA ELECTRIC**

# ● Polyethylene Sheath Structure for Duct Application

## Outline

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

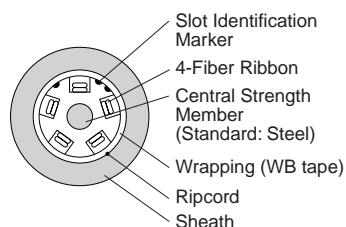
## Features & Advantages

- 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
- Ripcord allows easy sheath removal

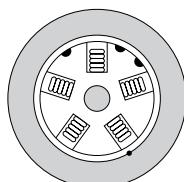
## \*Remarks

## Cross Sectional View of WB Cable

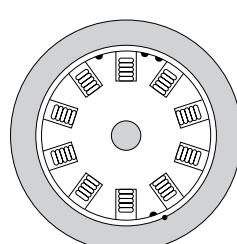
40 Fibers



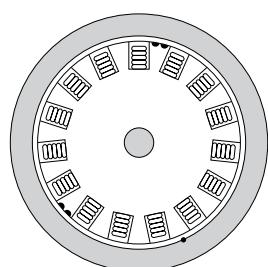
100 Fibers



200 Fibers



300 Fibers



# ● Polyethylene Sheath Structure for Duct Application

## Outline

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

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

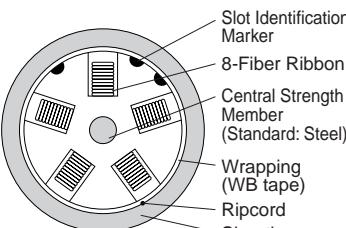
## Features & Advantages

- 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
- Ripcord allows easy sheath removal

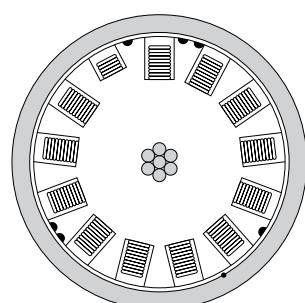
## \*Remarks

## 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 FR: Flame Retardant

# tion (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)			
Sheath	Material	Polyethylene, Black Color			
	Thickness (Nominal)	1.70mm			
Overall cable Diameter (Approx.)		10.0mm	12.0mm	15.5mm	19.5mm
Cable Weight (Approx.)		85kg/km	120kg/km	190kg/km	290kg/km
Maximum Pulling Tension		1040N		1290N	1710N
Minimum Bending Radius	Static	100mm	120mm	155mm	195mm
	Dynamic	200mm	240mm	310mm	390mm
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

# tion (8-Fiber Ribbon)

## Specification (8-Fiber Ribbon)

Item		Description	
Fiber Count		40	1000
Ribbon	Type	8-Fiber Ribbon	
	Number	50	125
Central Strength Member	Material	Steel Wire	Steel Wire Stand
	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)	
Sheath	Material	Polyethylene, Black Color	
	Thickness (Nominal)	1.70mm	
Overall cable Diameter (Approx.)		19.0mm	28.5mm
Cable Weight (Approx.)		285kg/km	615kg/km
Maximum Pulling Tension		2180N	2710N
Minimum Bending Radius	Static	300mm	
	Dynamic	600mm	
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 × [S1] / [S2] [S3] [S4] [S5] [S6]	Sheath Option [S6]
	Sheath Type [S5]
	Core Type [S4]
	Ribbon Type [S3]
	Structure [S2]
	Fiber Count [S1]
	Maximum Attenuation

**S** : Stripe(s)  
**FR** : Flame retardant  
**FRS** : Flame retardant with stripe(s)

**E** : Polyethylene

**M** : Slotted core

**WB** : Water blocking structure  
**NWB** : Water blocking structure with non-metallic central strength member

**4T** : 4-fiber ribbon type  
**8T** : 8-fiber ribbon type

**Fiber Count** : 4 to 1000  
4 to 300 (Using 4-fiber ribbon)  
400 to 1000 (Using 8-fiber ribbon)

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

## Example

S-045-030x100/WB4TMES:  
100 single mode optical fiber slotted core cable.  
Steel wire for central strength member, water blocking structure, polyethylene sheath with stripe(s)

Please contact us for additional fiber and options.

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



**FURUKAWA ELECTRIC CO., LTD.**

Furukawa Electric reserves the right to improve, enhance and modify the features and specifications of this product without prior notification.

<http://www.furukawa.co.jp>