

FITEL

Optical Fiber Ribbon Slotted Core Cable

(Armored Structure for Direct Buried Application)



FURUKAWA ELECTRIC

● Armored Structure for Direct Buried Application

Outline

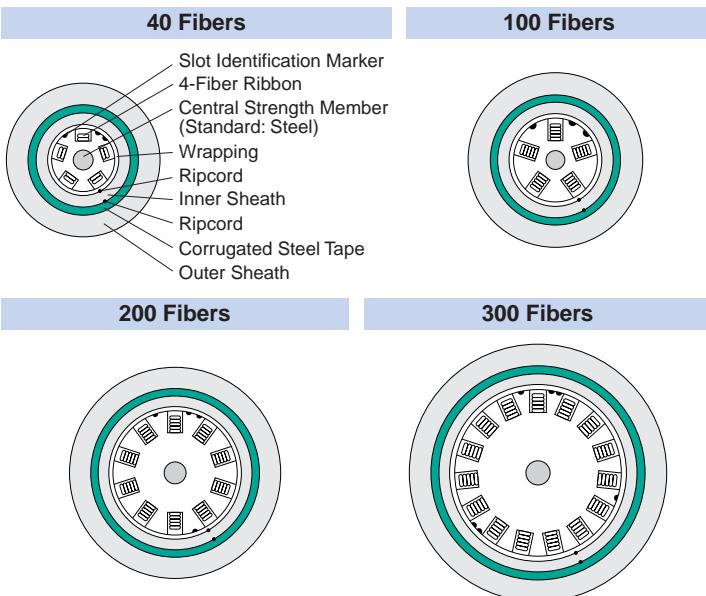
Corrugated steel tape is applied around the PE sheath cable, which accommodates 4-fiber ribbon. Armor structure provides additional compressive strength, designed for direct buried application.

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
- Armored structure provides outstanding mechanical strength and enhance rodent protection

*Remarks

Cross Sectional View of Cable



● Armored Structure for Direct Buried Application

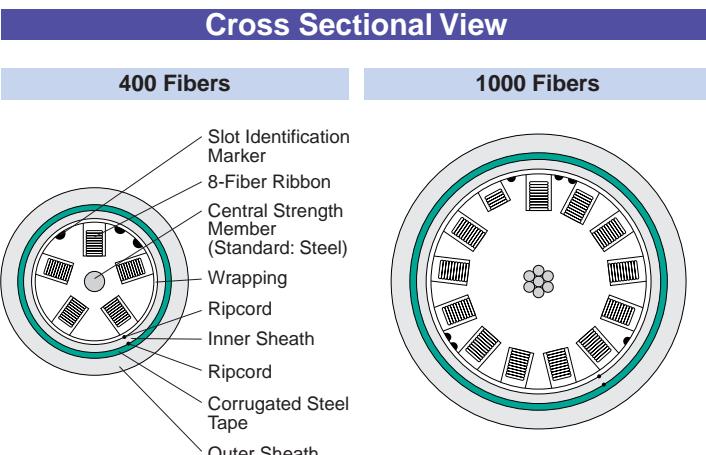
Outline

Corrugated steel tape is applied around the PE sheath cable, which accommodates 8-fiber ribbon. Armor structure provides additional compressive strength, designed for direct buried application.

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
- Armored structure provides outstanding mechanical strength and enhance rodent protection

*Remarks



*Remarks ■ Corrugated stainless armored cable is also available
 ■ Stripe(s) on the sheath for discernment (Optional)
 * Abbreviation WB: Water Blocking

n (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
Wrapping	Material	Stripes, Black Color			
	Ripcord	Water Blocking Tape(s)			
Inner Sheath	Material	Plastic Thread(s)			
	Thickness (Nominal)	Polyethylene, Black Color			
Ripcord	Material	1.00mm			
Armor	Material	Plastic Thread(s)			
Outer Sheath	Material	Corrugated Steel Tape with Polymer Coating			
	Thickness (Nominal)	Polyethylene, Black Color			
Overall Cable Diameter (Approx.)		2.00mm	14.5mm	16.5mm	20.0mm
Cable Weight (Approx.)		24.0mm	195kg/km	240kg/km	350kg/km
Maximum Pulling Tension		485kg/km	1040N	1290N	1710N
Minimum Bending Radius	Static	240mm	145mm	165mm	200mm
	Dynamic	480mm	290mm	330mm	400mm
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

n (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	
	Number and Diameter of Strands (Nominal)	1 / 2.6mm	7 / 1.2mm
Slotted Core	Material	Polyethylene	
	Diameter (Approx.)	15.0mm	24.5mm
Wrapping	Material	Stripes, Black Color	
	Ripcord	Water Blocking Tape(s)	
Inner Sheath	Material	Plastic Thread(s)	
	Thickness (Nominal)	Polyethylene, Black Color	
Ripcord	Material	1.00mm	
Armor	Material	Plastic Thread(s)	
Outer Sheath	Material	Corrugated Steel Tape with Polymer Coating	
	Thickness (Nominal)	Polyethylene, Black Color	
Overall Cable Diameter (Approx.)		2.00mm	23.0mm
Cable Weight (Approx.)		33.0mm	470kg/km
Maximum Pulling Tension		900kg/km	2180N
Minimum Bending Radius	Static	2710N	300mm
	Dynamic	660mm	330mm
Operating Temperature Range		-30°C ~ +70°C	

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Ordering Information

S-045-030	x [S1] / [S2] [S3] [S4] [S5] [S6] — [S7] [S8] [S9]	
		Outer Sheath Option [S9] S : Stripe(s) FR : Flame retardant FRS : Flame retardant with stripe(s)
		Outer Sheath Type [S8] ZE : Polyethylene
		Armor Type [S7] SP : Corrugated steel tape H : Corrugated stainless tape
		Inner Sheath Option [S6] S : Stripe(s) FR : Flame retardant FRS : Flame retardant with stripe(s)
		Inner Sheath Type [S5] E : 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/WB4TME-SPZES:
100 single mode optical fiber slotted core cable.
Steel wire for central strength member, water blocking structure, inner polyethylene sheath, corrugated steel tape armor, outer polyethylene sheath with stripe(s)

Please contact us for additional fiber and options.

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



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