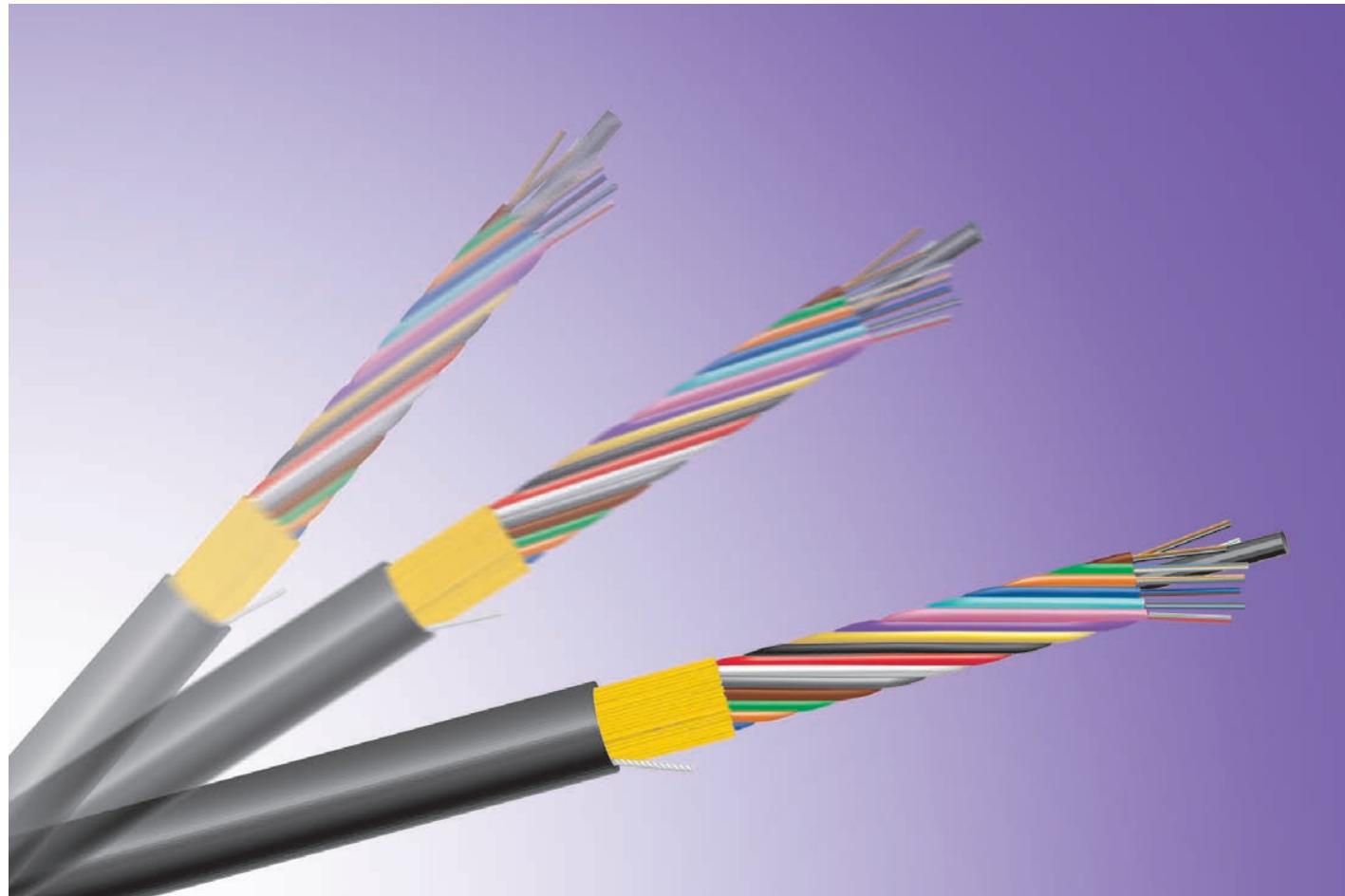


FITEL

Optical Fiber Loose Tube Cable

(Polyethylene Sheath Structure for Duct Application)



FURUKAWA ELECTRIC

Polyethylene Sheath Structure for Duct Application



Outline

The buffer tubes are stranded around a central strength member either metallic or non-metallic, by using the Reverse Oscillating Lay (ROL).

Features & Advantages

- Metallic or non-metallic central strength member options
- Proven loose tuber design provides outstanding optical fiber protection
- ROL buffer tube stranding technique permits quick and easy mid-span fiber access
- Ripcord allows easy sheath removal

Remarks

- Dry or flooded water blocking structure are available
- Stripe(s) on the sheath for discernment (Optional)

* Abbreviation

DC: Dry Core (Dry Water Blocking)

JF: Jelly Filled (Flooded Water Blocking)

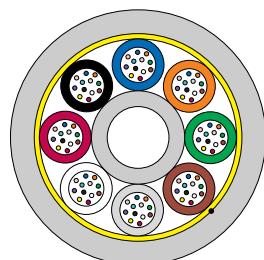
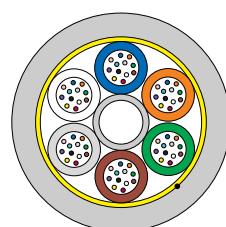
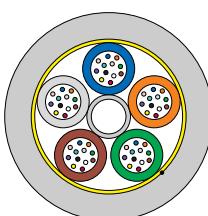
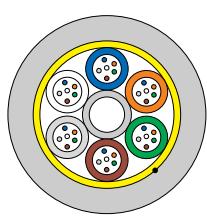
Cross Sectional View

36 Fibers

60 Fibers

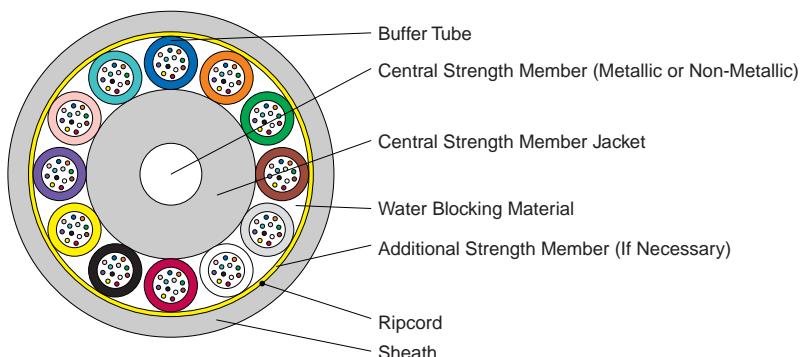
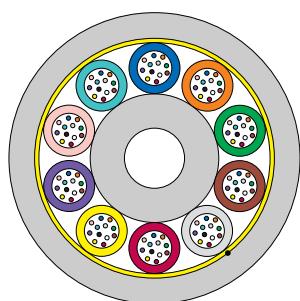
72 Fibers

96 Fibers



120 Fibers

144 Fibers



Specification (Metallic Central Strength Member)

Item		Description								
Fiber Count		Up to 36	48 & 60	72	84 & 96	108 & 120	132 & 144			
Loose Tube	Fiber per Tube	6 Fibers	12 Fibers							
	Number	1 to 6	4 or 5	6	7 or 8	9 or 10	11 or 12			
Filler Rod	Spec.	Plastic Rod, Natural Color								
	Number	5 to 0	1 or 0	—	1 or 0					
Central Strength Member	Material	Steel Wire								
	Diameter (Nominal)	2.0mm								
Central Strength Member Jacket	Material	Polyethylene, Black Color								
	Diameter (Nominal)	2.8mm	2.6mm	3.4mm	5.4mm	7.5mm	9.6mm			
Cable Core	Material	Dry or Flooded Water Blocking Material								
Additional Strength Member	Material	Dielectric Strength Member (If Necessary)								
Ripcord	Material	Plastic Thread(s)								
Sheath	Material	Polyethylene, Black Color								
	Thickness (Nominal)	1.40mm								
Overall Diameter (Approx.)		11.5mm	12.0mm	13.0mm	15.0mm	17.0mm	19.0mm			
Cable Weight (Approx.) DC (JF) Structure		110kg/km (125kg/km)	120kg/km (140kg/km)	135kg/km (155kg/km)	175kg/km (200kg/km)	220kg/km (250kg/km)	275kg/km (310kg/km)			
Maximum Pulling Tension		2700N								
Minimum Bending Radius	Static	115mm	120mm	130mm	150mm	170mm	190mm			
	Dynamic	175mm	180mm	195mm	225mm	255mm	285mm			
Operating Temperature Range		−40°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.

Specification (Non-Metallic Central Strength Member)

Item		Description					
Fiber Count		Up to 36	48 & 60	72	84 & 96	108 & 120	132 & 144
Loose Tube	Fiber per Tube	6 Fibers	12 Fibers				
	Number	1 to 6	4 or 5	6	7 or 8	9 or 10	11 or 12
Filler Rod	Spec.	Plastic Rod, Natural Color					
	Number	5 to 0	1 or 0	—	1 or 0		
Central Strength Member	Material	FRP					
	Diameter (Nominal)	2.0mm	2.5mm		3.5mm		
Central Strength Member Jacket	Material	Polyethylene, Black Color					
	Diameter (Nominal)	2.8mm	—	3.4mm	5.4mm	7.5mm	9.6mm
Cable Core	Material	Dry or Flooded Water Blocking Material					
Additional Strength Member	Material	Dielectric Strength Member (If Necessary)					
Ripcord	Material	Plastic Thread(s)					
Sheath	Material	Polyethylene, Black Color					
	Thickness (Nominal)	1.40mm					
Overall Diameter (Approx.)		11.5mm	12.0mm	13.0mm	15.0mm	17.0mm	19.0mm
Cable Weight (Approx.) DC (JF) Structure		95kg/km (110kg/km)	105kg/km (125kg/km)	120kg/km (140kg/km)	165kg/km (190kg/km)	210kg/km (245kg/km)	265kg/km (300kg/km)
Maximum Pulling Tension		2700N					
Minimum Bending Radius	Static	115mm	125mm	130mm	175mm		190mm
	Dynamic	175mm	180mm	195mm	225mm	255mm	285mm
Operating Temperature Range		−40°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

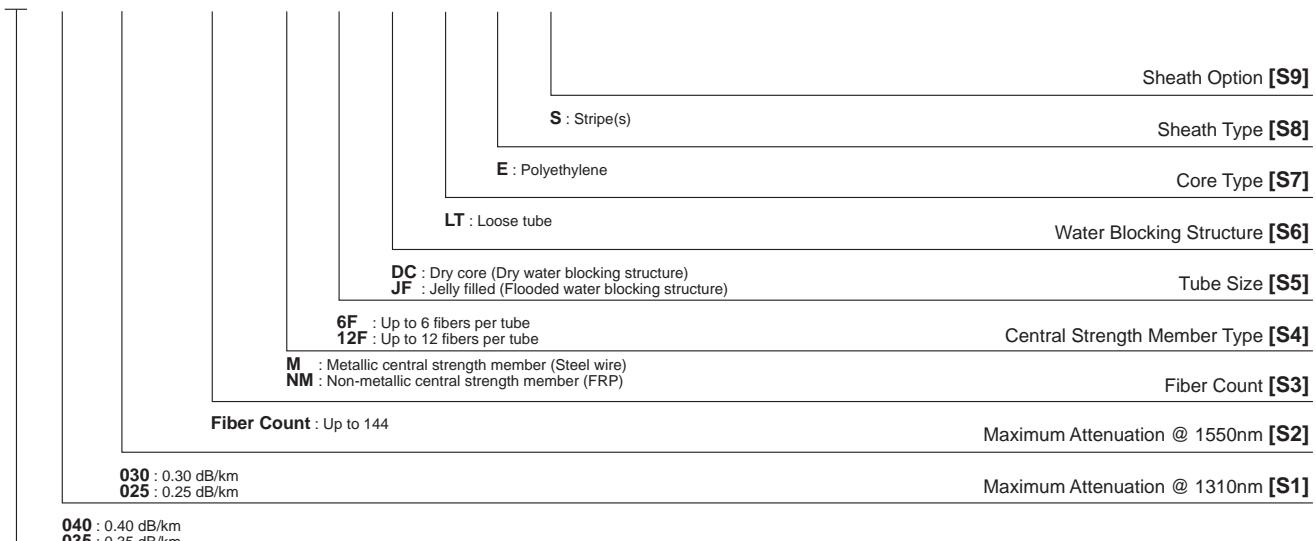
2) Year of manufacture

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



Ordering Information

$S \cdot [S1] \cdot [S2] \times [S3] / [S4] [S5] [S6] [S7] [S8] [S9]$



S : Single mode optical fiber

Example

Example
S-040-030×96/M12FDCLTES:
96 single mode optical fiber loose tube cable
Steel wire for central strength member up to

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>