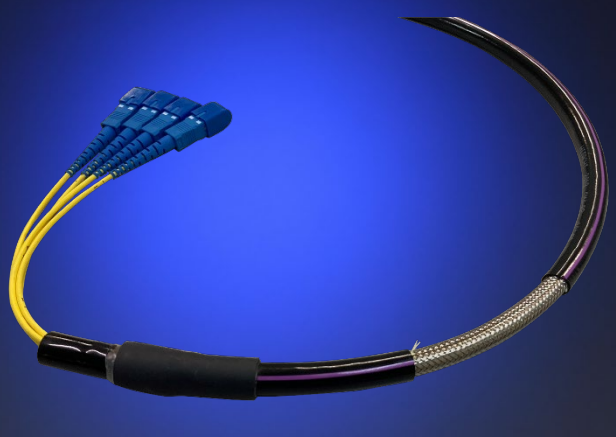


High Reinforced Optical Cable

Flexible and Rodent Resistant

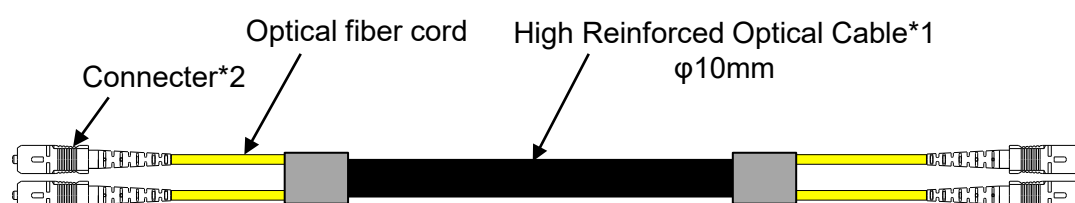


Features

Realizing both flexibility and rodent resistance by applying stainless steel braiding armoured optical fiber cable.

Applications

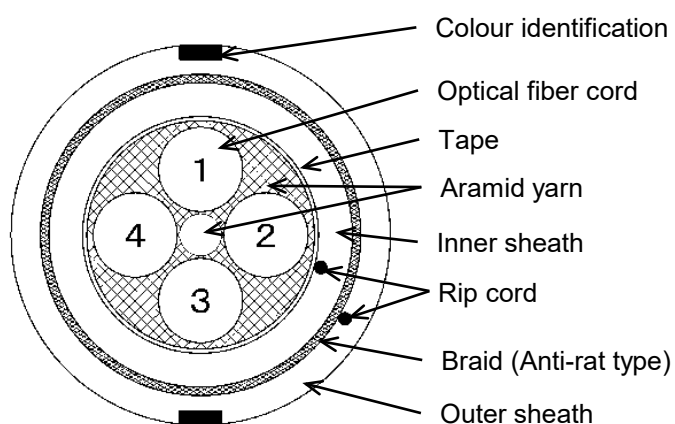
Rolling Stock for High-speed Rail and Metro



*1 Co-developed by EAST JAPAN RAILWAY COMPANY

*2 FC,SC,LC connectors available

Cable Structure



Fiber type	SM or GI
Outer diameter of optical fiber cord	2mm
Braid	Stainless (Anti-rat type)
Outer diameter of outer sheath	Approx. 10mm
Cable weight	Approx.110kg/km

Characteristics

(1)Fiber transmission loss

SMF(OS1) : $\leq 0.5\text{dB/km}$ at 1310nm

MMF(OM2) & (OM3) & (OM4) :
 $\leq 3.0\text{dB/km}$ at 850nm
 $\leq 1.0\text{dB/km}$ at 1300nm

(2)Transmission loss of cable assembly

Item	SM(OS1)	MMF
Insertion loss	$\leq 0.5^{*1} + \alpha\text{dB}^{*2}$	$\leq 0.3^{*1} + \alpha\text{dB}^{*2}$
Return loss	$\geq 40\text{dB}$	$\geq 20\text{dB}$

* 1 : Insertion loss per connector

* 2 : $\alpha = (\text{fiber transmission loss} \times L) + 0.2$