

Highly bendable optical cable

HPCF

Indoor

Movable

RoHS

This cable has excellent bending durability and tensile strength because a high-strength, high-durability special nylon resin is used in the core wire coating. Furthermore, the cable is made with HPCF optical fiber, which has a larger core-diameter than all-quartz fiber, to provide good coupling efficiency with optical modules and other optical fibers and resistance to mechanical stress. These qualities make this optical cable suitable for uses that require bending or strength, such as FA equipment and robot instruments.

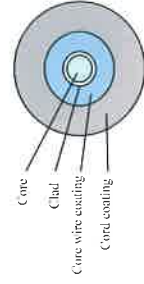


Main applications

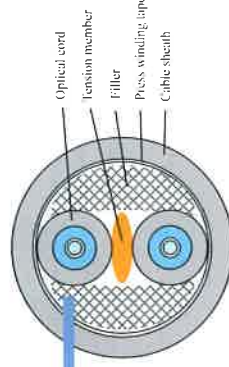
- Uses that require bending and strength, such as with FA equipment and robot instruments.
- Environments and devices that require strong noise-proof properties, restriction of noise emission, etc.
- Also suitable for onboard and vehicle related uses that require high-speed, large-volume transmission and heat resistance.
- Transmission applications that require blast-proof specifications in plant facilities, etc.

Construction

[Optical cord construction]



[Optical cable construction]



Specifications

Item	Specifications
Optical fiber type	HPCF
Core diameter / materials	200 μm / quartz glass
Clad diameter / materials	230 μm / UV resin
Core wire diameter / materials	0.9 mm / Nylon resin
Cord diameter / materials	2.2 mm / PVC resin
Cable diameter / materials	7.6 mm / PVC resin
Numerical aperture (NA)	0.41

Item	Specifications
Tensile strength	≥ 980 N
Allowable bend radius	≥ 80 mm
Bending strength (*)	≥ 20 million times (R 50 mm)
Operation temperature range	-20 to 60°C
Transmission loss	λ=650 nm ≤ 15 dB/km
	λ=850 nm ≤ 7 dB/km
Transmission band (λ=850 nm/@25°C)	≥ 10 MHz/km

*These special characteristics indicate actual values under Oki test conditions. They are not guaranteed values. For details, see the technical material at the end of the document.

Model no.

Number of cores	Product model no.
Two-core	PCK202HPX