

Fiber Optic Rugged Patch Cord



The Rugged Fiber Optic Patch cords are basically Fiber Optic Patch Cords suggested for more rugged harsh environments. The spiral steel tape provides additional crush resistance and rodent attack prevention. The patch cord can be deployed in Remote Radio Head cell tower applications and connection between distribution box and RRH.

Features

- Good mechanical and temperature characteristics.
- Small diameter, light weight, easy to connect, and supports large capacity data transmission.
- The material in the jumper cable is all-weather and UV-resistant.
- Flexibility with small bending radius and excellent cable routing properties.

Constructional Specifications

Cable Type	: G652D
Tight Buffer Fiber OD	: 0.9±0.05mm
Aramid Yarn	: 1100D, 2 Branch outside the Tight buffered, 10 branch between the spiral armor & outer Jacket
Inner Sheath OD	: 2.0±0.1 mm
SUS Spiral Armored OD	: 4.60±0.2mm
Outer jacket OD	: 7.0±0.3mm
Minimum allowable Tensile strength (Short Term)	: 600N
Minimum allowable Tensile strength (Long Term)	: 1000N
Minimum allowable Crush Load strength (Short Term)	: 2000N/100mm
Minimum allowable Crush Load strength (Long Term)	: 300N/100mm
Minimum bending radius (Dynamic)	: 20D
Minimum bending radius (Static)	: 10D

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Mechanical Specifications

Test	Conditions	Reference
Endurance	: 500 matings	IEC 61300-2-2
Vibration	: Frequency: 10 to 55Hz, Amplitude: 0.75mm	IEC 61300-2-1
Cable retention	: 400N (main cable); 50N (ranch part)	IEC 61300-2-4
Strength of coupling mechanism	: 80N for 2 to 3mm cable	IEC 61300-2-6
Cable torsion	: 15N for 2 to 3mm cable	IEC 61300-2-5
Fall	: 10 drops, 1m drop height	IEC 61300-2-12
Static lateral load	: 1N for 1h (main cable); 0.2N for 5min (ranch part)	IEC 61300-2-42

Environmental Specifications

Change of temperature	: -25°C to +70°C
Humidity	: +40°C at 93%

Ordering Information

Product Code	Description
84200-XXXX	LCU To LCU Fiber Optic Patch Cord, Ruggedized, 7 mm, Duplex, OS2