

FIBER OPTIC CABLE ASSEMBLIES

Reduced Bend Sensitivity (FRB) patch cords and pigtails

FRB patch cords and pigtails are available for multimode (OM3 and OM4) and singlemode (OS2/G.657A1 and G.657A2) based on reduced bend sensitivity fiber cable.

FRB patch cords exhibit much lower optical power loss under bend conditions while remaining compatible with conventional cabling and are made with solid trench assisted optical fiber that is designed to reduce optical loss when the cable is bent.

They provide the same high quality, mechanical features and optical performance as our standard patch cords with the added capability of maintaining optical performance when bent or flexed.

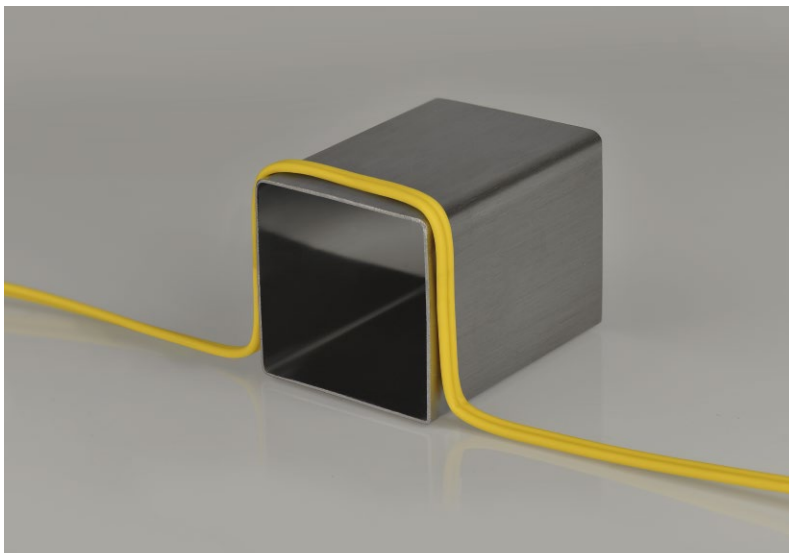
Applications

FRB patch cords and pigtails are used in applications for which low loss in tight radius routing is important:

- When routing cable around corners and in tight spaces is required, for example in FTTH (Fiber to the Home) installations in existing buildings.
- FTTH cabling in Point of Presences, Main Distribution points and subscriber connections.
- Data Centers where network up time is critical. For example, OM4 FRB patch cords will continue to provide data service when pinched by a cabinet door, whereas service would be lost with conventional OM4 patch cords.
- When small radius installation is needed or the cabling may be subject to occasional small radius events.

Specification

General mechanical and optical specifications of FRB patch cords are as per corresponding standard products including IEC and TIA/EIA standards conformance.



Tight Radius Routing

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Specifications for FRB singlemode patch cords (OS2 / ITU-T G657A1 and G657A2)

G657A1 Bend performance

- Guideline radius: 15mm radius
- Loss at 1550nm: 15mm radius < 0.25 dB
10mm radius < 0.75 dB

G657A2 Bend performance

- Guideline radius: 7.5mm radius
- Loss at 1550nm: 15mm radius < 0.03 dB
10mm radius < 0.01 dB
7.5mm radius < 0.5 dB

Specifications for multimode patch cords (OM3 and OM4)

OM3 Bend performance

- Guideline radius: 10mm radius
- Loss at 850nm: 15mm radius < 0.1 dB
- Loss at 1300nm: 15mm radius < 0.3 dB

OM4 Bend performance

- Guideline radius: 10mm radius
- Loss at 850nm: 7.5mm radius < 0.2 dB
- Loss at 1300nm: 7.5mm radius < 0.4 dB