

Reduced Bend Sensitivity Patchcords

Optronics patchcords and pigtails are available in both singlemode and multimode classes based on reduced bend sensitivity (RBS) fibre cable.

RBS patchcords exhibit much lower optical power loss under bend conditions while remaining compatible with conventional cabling. RBS patchcords are made with solid trench assisted optical fibre that is designed to reduce optical loss when the cable is bent. RBS patchcords provide the same high quality, mechanical features and optical performance as our standard patchcords with the added capability of maintaining optical performance when bent or flexed.

RBS patchcords are available for multimode (OM3 and OM4) and singlemode (OS2/ G.657A1 and G.657A2) networks.

Application

RBS patchcords 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 installations in existing buildings.**
- > **FTTH cabling in POPs, MDU distribution points and subscriber connections.**
- > **Data Centres where network uptime is critical. For example, OM4 RBS patchcords will continue to provide data service when pinched by a cabinet door, whereas service would be lost with conventional OM4 patchcords.**
- > **Generally, when small radius installation is needed or the cabling may be subjected to occasional small radius events.**



Straight fibre as reference



G.652.D → 15.10dB

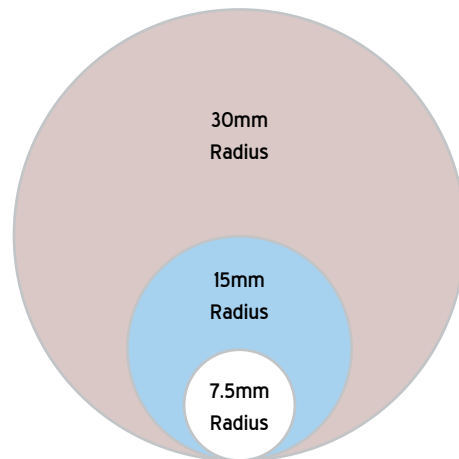


RBS → 0.21dB

Termination Specification

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

FIBRE CLASS	FIBRE STANDARD	GUIDELINE RADIUS	BEND PERFORMANCE			
Standard Multimode and Singlemode		30mm	-			
REDUCED BEND SENSITIVITY MULTIMODE		RADIUS	URNS	LOSS AT 850 nm	LOSS AT 1300 nm	
OM3 RBS	OM3	10mm	15mm	2	≤ 0.1 dB	≤ 0.3 dB
OM4 RBS	OM4		7.5mm	2	≤ 0.2 dB	≤ 0.4 dB
REDUCED BEND SENSITIVITY SINGLE MODE		15MM RADIUS 10 TURNS	10MM RADIUS 1 TURN	LOSS AT 1550 nm 7.5MM RADIUS 1 TURN		
657A1	ITU-T G.657A1 / OS1 / OS2	15mm	≤ 0.25 dB	≤ 0.75 dB	-	
657A2	ITU-T G.657A2 / OS1 / OS2	7.5mm	≤ 0.03 dB	≤ 0.1 dB	≤ 0.5 dB	



Actual Size

Part Number Generator

Connector End A		Connector End B		Fibre Type		Cable Configuration		Cable Diameter		Cable Colour		Cable Length (M) ¹		/Z
FC	FC	FC	FC	G657A1	A1	Duplex	D	1.6 mm ²	1.6 mm	Yellow	YE	1 Mtr	1	
FC/APC	FCA	FC/APC	FCA	G657A2	A2	Simplex	S	2.0mm	2.0mm	Purple	PU	2 Mtrs	2	
SC	SC	SC	SC	OM3RBS	OM3R	Flat Duplex	FD	2.8mm	2.8mm	Aqua	AQ	3 Mtrs	3	
SC/APC	SCA	SC/APC	SCA	OM4RBS	OM4R					Erika Violet	EV	5 Mtrs	5	
ST	ST	ST	ST									10 Mtrs	10	
LC	LC	LC	LC									X Mtrs	xx	
LC/APC	LCA	LC/APC	LCA											
E2000	E2	E2000	E2											
E2000/APC	E2A	E2000/APC	E2A											

¹Other lengths available upon request.
²1.6mm only available as singlemode.

Please call sales for more details.