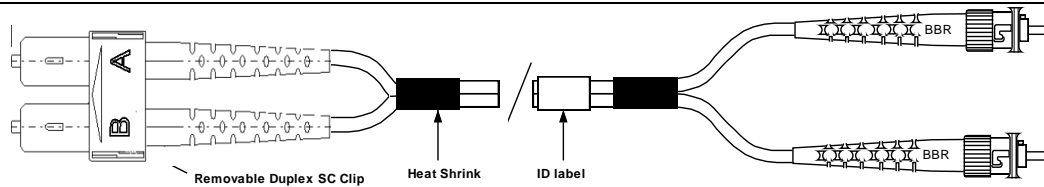


PHYSICAL CHARACTERISTICS



OPTICAL PERFORMANCE

- Multimode
 - Insertion loss: $\leq 0.5\text{dB}$ (0.75dB for MT-RJ) Typical 0.3dB
 - Return loss: $\geq 20\text{ dB}$
- Singlemode
 - Insertion loss: $\leq 0.3\text{dB}$ (0.75dB for MT-RJ) Typical 0.1dB
 - Return loss: $\geq 45\text{dB(PC)}, \geq 50\text{dB(UPC)}, \geq 60\text{dB(APC)}, \geq 30\text{dB (MT-RJ)}$

MECHANICAL SPECIFICATIONS

- Length (ferrule tip –ferrule tip): 1m to 5m with other lengths available on request
- Overall length tolerance: $-0/+0.1\text{m}$
- Split length (DUPLEX, ST, SC, LC, etc): 150mm nominal
- ID label (Distance from one end): 200mm nominal
- Recommended bend radius (Min): 40mm
- Connector Cable retention: 100N min (2.5-3mm \varnothing) cable assembly
50N min (1.5-2mm \varnothing) cable assembly

ENVIRONMENTAL CONDITIONS

- Operating temperature: $-10\text{ to }70^{\circ}\text{C}$
- Temperature cycling: $-25\text{ to }+70^{\circ}\text{C}$, 40 cycles
(IEC 874-1 sec.4.5.22) $\leq 0.2\text{dB Change}$
- High temperature: 70°C for 96 hours
(IEC 874-1 sec.4.5.18) $\leq 0.2\text{dB Change}$
- Damp heat: 60°C at 95% RH, 96 hours
(IEC 874-1 sec.4.5.19) $\leq 0.2\text{dB Change}$
- Vibration (mated pair): 10-55 Hz, 1.5mm P to P
(IEC 874-1 sec.4.5.1) $\leq 0.3\text{dB Change}$
- Mating durability: 1000 mating cycles, standard connectors, 500 mating cycles MTRJ
(IEC 874-1 sec.4.5.32) Clean every 25 $<0.2\text{ dB Change}$

PRODUCT PACKAGING

- Each patch cord is individually packed and labelled for ease of identification.

PRODUCT CERTIFICATION

- Each patch cord is identified with a batch reference ID label and is supplied with an individual test certification

CHANNEL IDENTIFICATION

- Generally Boot Colours are used to identify the channels. For Duplex cords (excluding APC which are green) the channel identification would be as follows:-

	Multimode		Singlemode	
	Channel A	Channel B	Channel A	Channel B
Duplex LC	White	Yellow	White	Yellow
Duplex SC	White	Blue	White	Blue
Duplex FC	Black	Red	Black	Yellow
Duplex ST	Black	Red	Black	Yellow

Note: - 1 Boot colours are not used on MT-RJ connectors for channel identification. Connector is supplied with a single black boot only.

Note: - 2 All connector combinations follow the A & B channels. Identification as marked on diagram in physical characteristics.

Note: - 3 For LC duplex patchcords colours refer to the Heatshrink colours.

Note: - 4 Simplex cords follow channel A for Multimode cord & Channel B for Singlemode.

*“Brand-Rex is **dedicated to designing, developing and manufacturing** sustainable **high performance** structured cabling and speciality **cabling solutions**”*

The information contained in this document is valid and correct at the time of issue. Brand-Rex reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.