APPLICATION

A range of patch cords manufactured using Brand-Rex cables and connectors. The use of Brand-Rex connectors and LSZH cables in the manufacture of these assemblies’ guarantees the highest levels of long-term mechanical and optical performance.

FEATURES

- All major connector types
- Colour coded for identification
- Removable Duplex Clip

PART NUMBER BREAKDOWN

HOPAABBBCCCDDEFG

Group: HOP=Patchcord

End 1 Connector Type:
- ST = ST/PC
- FC = FC/PC
- SC = SC/PC
- LC = LC/PC
- MJ = MT-RJ
- UT = ST/UPC
- UF = FC/UPC
- UC = SC/UPC
- UL = LC/UPC
- AT = ST/APC
- AF = FC/8°APC
- AC = SC/8°APC
- AL = LC/8°APC

(Other connector types are available on request)

Fibre type:
- 062 = 62.5/125µm Multimode
- 050 = 50/125µm Multimode
- 0M3 = 50/125µm Multimode
- 0M4 = 50/125µm Multimode
- 008 = 8-9/125µm Singlemode

(Other fibre types available on request)

Length (STD):
- 010 = 1m
- 020 = 2m
- 030 = 3m
- 050 = 5m

(Other lengths are available on request)

End 2 Connector Type: as per End 1

No of fibres:
- 1 = Simplex
- 2 = Duplex

Cable colour:
- 0 = Yellow
- 5 = Aqua
- 7 = Heather Violet
- 8 = Grey
- 9 = Orange

Cable type:
- 1=2.8mm/900µm
- 2=2.0mm/600µm
- 3=2.0mm/900µm
PHYSICAL CHARACTERISTICS

OPTICAL PERFORMANCE

- Multimode
  - Insertion loss: ≤ 0.5dB (0.75dB for MT-RJ)  Typical 0.3dB
  - Return loss: ≥ 20 dB

- Singlemode
  - Insertion loss: ≤ 0.3dB (0.75dB for MT-RJ)  Typical 0.1dB
  - Return loss: ≥ 45dB(PC), ≥ 50dB(UPC), ≥ 60dB(APC), ≥ 30dB (MT-RJ)

MECHANICAL SPECIFICATIONS

- Length (ferrule tip – ferrule tip): 1m to 5m with other lengths available on request
- Overall length tolerance: -0/+0.1m
- 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 (2.5-3mmØ) cable assembly
  50N min (1.5-2mmØ) cable assembly

ENVIRONMENTAL CONDITIONS

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

<table>
<thead>
<tr>
<th></th>
<th>Multimode</th>
<th></th>
<th>Singlemode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Channel A</td>
<td>Channel B</td>
<td>Channel A</td>
</tr>
<tr>
<td>Duplex LC</td>
<td>White</td>
<td>Yellow</td>
<td>White</td>
</tr>
<tr>
<td>Duplex SC</td>
<td>White</td>
<td>Blue</td>
<td>White</td>
</tr>
<tr>
<td>Duplex FC</td>
<td>Black</td>
<td>Red</td>
<td>Black</td>
</tr>
<tr>
<td>Duplex ST</td>
<td>Black</td>
<td>Red</td>
<td>Black</td>
</tr>
</tbody>
</table>

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”

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