

APPLICATION

The Brand-Rex ST-compatible connectors are comprised of a nickel-plated zinc body coupling mechanism and a ceramic ferrule/spring/crimp barrel assembly plus a strain relief boot. These connectors are suitable for 900µm, 2mm and 2.4 - 3mm cables. Refer to the diagram for nominal dimensional information.

The connector is precision made and manufactured to demanding specifications. The combination of a ceramic ferrule and a precision metal housing provides consistent long-term mechanical and optical performance.

FEATURES

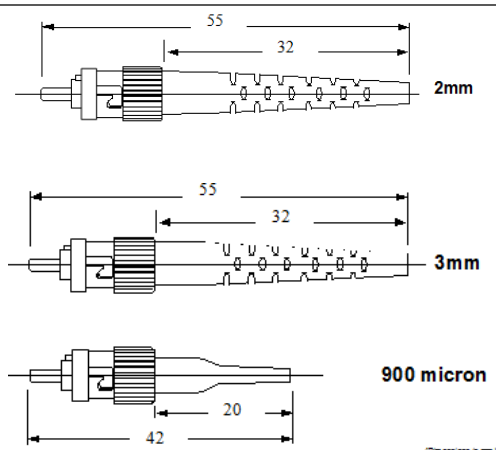
- Strong and robust design
- Reliable performance
- Dust protection caps as standard
- Single and Multimode options



ORDER INFO

Brand-Rex Part Number	Item Description	Colour	Qty per Pack
FOCSTEPsm001	ST Singlemode Connector 900µm and 2.4-3.0mm	3mm Boots - 1x Black and 1x Yellow 900 µm Boot - Yellow Dust Cap - Yellow	1
FOCSTEPmm001	ST Multimode Connector 900µm and 2.4-3.0mm	3mm Boots - 1x Black and 1x Red 900 µm Boot - Yellow Dust Cap - Yellow	1
FOCSTEPsm002	ST Singlemode Connector 900µm and 2.0mm	2mm Boots - 1x Black and 1x Yellow 900 µm Boot - Yellow Dust Cap - Yellow	1
FOCSTEPmm002	ST Multimode Connector 900µm and 2.0mm	2mm Boots - 1x Black and 1x Red 900 µm Boot - Yellow Dust Cap - Yellow	1

PHYSICAL CHARACTERISTICS



MECHANICAL

- Singlemode:
 - Capillary diameter tolerance: 126 +1/-0 μm
 - Ferrule Diameter: 2.499mm ± 0.0005
 - PC - Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule R 10 to 25
- Multimode:
 - Capillary diameter tolerance: 127 +3/-0 μm
 - Ferrule Diameter: 2.499mm ± 0.001
 - PC - Pre-radiused, PC-end finish for Physical Contact ferrule to ferrule R 10 to 25

BACK SHELL

- Cable Acceptance
 - Max. Diameter: 2.0 or 3.0mm Tight Buffer Cable
 - Min. Diameter: 0.9mm Buffered Fibre
 - Tensile Strength: >10 kg before pull out 2 or 2.4 - 3.0mm Cable

ENVIRONMENTAL (WHEN TERMINATED)

- Temperature Cycling: -40 to +75°C, 40 cycles (IEC 874-1 sec.4.5.22) $\leq 0.2\text{dB}$ Change
- High Temperature: 75°C for 96 hours (IEC 874-1 sec.4.5.18) 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 (IEC 874-1 sec.4.5.32) Clean every 25 < 0.2 dB Change

OPERATING TEMPERATURE

- -40°C to +85°C (Check cable temp performance)

OPTICAL PERFORMANCE

- Singlemode:
 - Insertion loss: Max. 0.3dB Typical 0.15 dB (IEC 874-1 method 7)
 - Return loss: < -45dB
 - Multimode:
 - Insertion loss: Max. 0.5dB Typical 0.2 dB (IEC 874-1 method 7)
- 2.499mm ± 0.0005

INTERMATEABILITY

- Optically and mechanically compatible with all ST equivalent connectors compliant with ANSI/TIA604—2-B: 2004 (FOCIS-2)

CRIMP TOOL

- Standard .151 Hex Die hand tool

PRODUCT PACKAGING

- Each connector is packaged individually
- Each pack contains: ST connector, crimp ring, dust cap & boots
- Bulk packaging also available

TERMINATION PROCEDURE

- Prep cable end, Epoxy-Crimp-Polish

"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.