

# FIBRE ADAPTOR

## FIBRE ADAPTOR SPECIFICATION

Norden's fibre adaptors are available for all standard connector types in both single mode and multimode including Simplex and duplex versions. Single mode adaptors are available with either Zirconia or phosphor bronze sleeves. Zirconia sleeves provide tighter tolerances, generally required for angled physical contact (APC) connectors. Multimode adaptors are available with phosphor Bronze sleeves, which provide good performance for spherical polished connectors. The adaptor sleeve aligns the ferrules and holds them in place. The adaptors are colour coded allowing easy identification of the adaptor type.

Norden hybrid Fibre optic adaptors are also available which are used to link different kinds of fibre optic connectors. Hybrid Adaptor specifications and functions are same as standard fibre optic adaptors.

## ENVIRONMENTAL & MECHANICAL DATA

|                                  |  |
|----------------------------------|--|
| Operating Temperature            | -40 °C to +75 °C                                   |
| Storage Temperature:             | -40 °C to +85 °C                                   |
| Temperature Cycling (61300-2-18) | -40 °C to +75 °C, 40 cycles=0.2 dB change          |
| High temperature (61300-2-18)    | 70° c for 96Hrs, < 0.4 dB change                   |
| Damp Heat (61300-2-19)           | 40° C at 93 % RH for 96 Hrs, < 0.4 dB change       |
| Vibration-Mated Pair (61300-2-1) | 10-55 Hz, 1.5 mm P to P < 0.2 dB change            |
| Mating Durability (61300-2-2)    | 500 Mating Cycles, clean every 25, < 0.2 dB change |

## OPTICAL PERFORMANCE DATA

| Item                                | Single mode                |        |        | Multimode                  |        |               |
|-------------------------------------|----------------------------|--------|--------|----------------------------|--------|---------------|
|                                     | PC                         | UPC    | APC    | 62.5/125                   | 50/125 | 50/125<br>10G |
| Insert. Loss/Adaptor (single Fibre) | 0.2 dB Max. (0.15 dB typ.) |        |        | 0.3 dB Max. (0.25 dB typ.) |        |               |
| Return Loss                         | ≥45 dB                     | ≥50 dB | ≥60 dB | N.A                        |        |               |
| Insert. Loss/MTRJ                   | 0.5dB Max. (0.45 dB typ.)  |        |        | 0.5 dB max. (0.45 dB typ.) |        |               |
| Pull strength                       | ≥98 N                      | ≥98 N  | ≥98 N  | ≥98 N                      |        |               |

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## ST FIBRE OPTIC ADAPTOR

ST fibre optic adaptors are all threaded type, with metal housing, single mode ones are with Zirconia sleeve and multimode ones are with Bronze sleeve. ST fibre optic adaptors are simplex adaptors.



## APPLICATIONS

LAN & WAN Network  
CATV, Broadband FTTP

## DESIGN & MATERIALS

|                              |   |
|------------------------------|---|
| Adaptor material             | Zinc Alloy with nickel plating                        |
| Dimension (H X W x D)        | 0.66" x 0.60" x 1.3"                                  |
| Split Sleeve Material        | Phosphor Bronze or Zirconia ceramic for SM            |
| Capillary diameter tolerance | 126 ± 0.5 µm (Single Mode) & 127 ± 0.5 µm (Multimode) |
| Operating Temperature        | -40 °C to +75 °C                                      |
| Storage Temperature          | -40 °C to +85 °C                                      |
| Mating durability            | > 500 Mating Cycles                                   |

## ORDERING INFORMATION

| Part Number | Description                   |
|-------------|-------------------------------|
| 351-SSTST   | ST Singlemode Simplex Adaptor |
| 351-MSTST   | ST Multimode Simplex Adaptor  |

## PACKING INFORMATION

| Part Number | Packing Length | Packing Mode | N.W (kg) | G.W (kg) | Dimension (mm)  |
|-------------|----------------|--------------|----------|----------|-----------------|
| 351-SSTST   | 100 x 5 x 5    | Carton Box   | 11.5     | 12.5     | 545 x 260 x 395 |
| 351-MSTST   | 100 x 5 x 5    | Carton Box   | 11.5     | 12.5     | 545 x 260 x 395 |