



## Fibre optic contacts

### Description

#### Size 16 Fibre optic contacts for TRIM TRIO® connectors

Size 16 Fibre optic contacts are optical contacts designed for the integration of optical links in all TRIM TRIO® cable connectors.

#### The Fibre optic contacts are designed to accommodate:

- Plastic Optical Fibre (POF)
  - 1 mm core and 2.2 mm jacket
- Plastic Clad Fibre (PCF)
  - 230µm core and 2.2 mm jacket
- Multimode Silica Fibre
  - 62.5/125µm type 2.0 mm max. jacket
- Singlemode Silica Fibre
  - 9/125µm type 2.0 mm jacket



#### Typical features and benefits are:

- Socket contact is spring loaded to avoid any air gap between the two optical faces.
- Low insertion loss is provided by high precision pieces.
- Single jumpers, multiway harness and active device housings can be supplied regarding customer requirement.

### Technical characteristics

#### Performance

|                                   |                |                         |                       |
|-----------------------------------|----------------|-------------------------|-----------------------|
| • Fibre type:                     | POF/PCF        | Multimode<br>62.5/125µm | Singlemode<br>9/125µm |
| • Wave length:                    | 650 nm         | 1300 nm                 | 1310 nm               |
| • Optical insertion loss (typ.):  | 2 dB max.      | < 0.5 dB                | < 0.35 dB             |
| • Jacketed external diameter:     | 2.2mm          | 2.0mm max.              | 2.0mm max.            |
| • Temperature range:              | -25°C to +70°C | -25°C to +70°C          | -25°C to +70°C        |
| • Cable retention:                | 49N            |                         |                       |
| • Mating cycles without cleaning: | 50             |                         |                       |
| • Max. mating cycles:             | 500            |                         |                       |

#### Construction

- Contact body: Copper alloy

#### Connector accommodation

Any TRIM TRIO® size 16 contact can be used in any contact position in any connector in the TRIM TRIO® size 16 interconnection system : UTP, UTS, UTG, UTO.



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### Ordering information

#### POF Contacts (Plastic Optical Fibre)

|                |            |
|----------------|------------|
| Male contact   | RMPOF1000  |
| Female contact | RCPOF1000B |

#### PCF Contacts (Plastic Clad Fibre)

|                |           |
|----------------|-----------|
| Male contact   | RMPCF230  |
| Female contact | RCPCF230B |

#### Silica Contacts - Multimode

|                |         |
|----------------|---------|
| Male contact   | RMMMOFA |
| Female contact | RCMMOFA |

#### Silica Contacts - Monomode

|                |         |
|----------------|---------|
| Male contact   | RMSMOFA |
| Female contact | RCSMOFA |

### POF Contact (Plastic Optical Fibre)

#### STANDARD TOOLING KIT - P/N 80MS0004

The *standard tooling kit* is made of the part numbers below that can be ordered separately as well.

| Part numbers | Descriptions   |
|--------------|--|
| 80WD0005     | Stripping tool   |
| 80WD0025     | Automatic stripping tool for Ø 0.5 mm, 0.6 mm, 0.7 mm & 3.8 mm |
| 80WM0006     | Ruler  |
| 80WP0005     | Polishing plate  |
| 80WP0013     | Non slip base (to hold the polishing plate)                    |
| 80WP0014     | Polishing disk (grain size 9µm)                                |
| 80WP0018     | Polishing tool   |
| 80WP0019     | Polishing disk (grain size 30µm)                               |
| 80WS0002     | Crimping plier   |

#### SPECIFIC TOOLING LIST - can be ordered only separately

| Part numbers | Descriptions    |
|--------------|-----------------|
| 80WG0010     | Needle          |
| 80WG0015     | Capsule         |
| 80WG0016     | Syringe         |
| 80WN0005     | Dry air spray   |
| 80WN0006     | Optical paper   |
| 80WN0012     | Dropping bottle |
| 80WN0008     | Wiping solvent  |

### PCF Contact (Plastic Clad Fibre)

#### STANDARD TOOLING KIT - P/N 80MG0039

| Descriptions                 |
|------------------------------|
| Stripping tool for Ø 2.2 mm  |
| Kevlar scissors              |
| Stripping tool for Ø 0.25 mm |
| Alumina blade                |
| Polishing tool               |
| Press fit tool               |
| Microscope                   |

| Descriptions                                |
|---|
| Polishing disk (grain size 9µm)             |
| Polishing disk (grain size 0.3µm)           |
| Curing oven                                 |
| Polishing plate                             |
| Non slip base (to hold the polishing plate) |
| Glue  |



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### Multimode Contact - Silica

#### STANDARD TOOLING KIT - P/N 80MG0027

The *standard tooling kit* is made of the part numbers below that can be ordered separately as well.

| Part numbers | Descriptions   |
|--------------|--|
| 80WC0001     | Aramid yarn scissors   |
| 80WC0003     | Cutter   |
| 80WC0004     | Alumina blade  |
| 80WD0008     | Stripping tool for Ø 0.20 mm                                   |
| 80WD0010     | Stripping tool for Ø 0.25 mm                                   |
| 80WD0014     | Stripping tool for Ø 0.60 mm                                   |
| 80WD0025     | Automatic stripping tool for Ø 0.5 mm, 0.6 mm, 0.7 mm & 3.8 mm |
| 80WM0006     | Ruler  |
| 80WP0005     | Polishing plate  |
| 80WP0013     | Non slip base (to hold the polishing plate)                    |
| 80WT0008     | Curing oven  |
| 80WT0009     | Protective tube  |

#### SPECIFIC TOOLING LIST - can be ordered only separately

| Part numbers | Descriptions                          |
|--------------|---------------------------------------|
| 80WD0036     | Stripping tool for Ø 0.9 mm & 0.25 mm |
| 80WD0005     | Stripping tool for Ø 2.2 mm & 1.5 mm  |
| 80WL0001     | Microscope x400                       |
| 80WL0008     | Microscope adaptor                    |
| 80WP0025     | Polishing tool                        |
| 80WS0002     | Crimping tool                         |
| 80WT0005     | Contact support for polymerisation    |
| 80WG0010     | Needle                                |
| 80WG0014     | Glue                                  |
| 80WG0015     | Capsule                               |
| 80WG0016     | Syringe                               |
| 80WN0005     | Dry air spray                         |
| 80WN0006     | Optical paper                         |
| 80WN0012     | Dropping bottle                       |
| 80WP0014     | Polishing disk (grain size 9µm)       |
| 80WP0015     | Polishing disk (grain size 0.3µm)     |