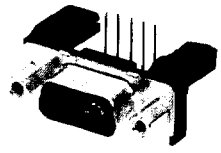
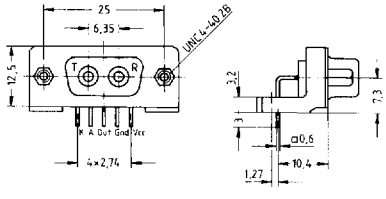
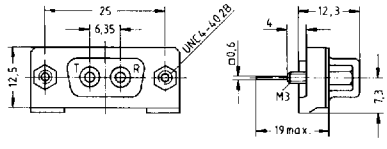
Electro-Optic Converters

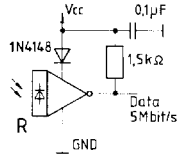


in duplex-style for short range transmission
with Polymer Optical Fibres (λ = 660 nm)

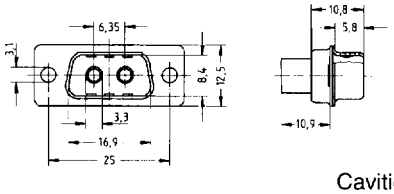
Description

The electro-optical converters, when integrated into D-Sub connector shell housings, are an economic way of constructing F. O. data links. Utilizing the 1 mm Polymer Optical Fibre (POF) gives a max. transmission distance of 60 metres. The hybrid 15 way D-Sub shell size version shown below offers 6 electrical contacts in addition to the two optical channels. Standard accessories for D-Sub can be applied. For heavy duty applications a special housing is available (Protection level IP 65).

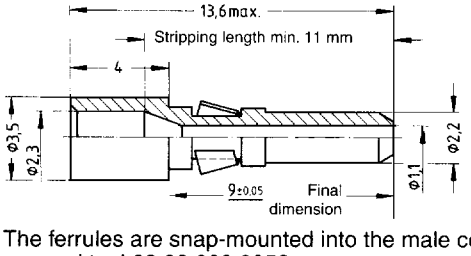
Identification	Part No.	Drawing	Dimensions in mm
F. O. D-Sub T/R (9 way female shell size)			
angled	20 66 009 3811		
straight	20 66 009 3812		



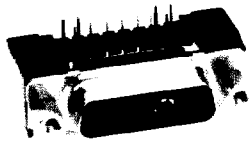
Receiver:
Circuit diagram recommended

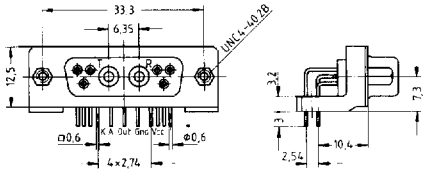
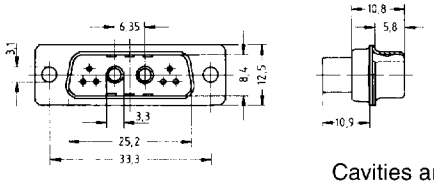
F. O. D-Sub (9 way male shell size)	20 67 009 3811		

Cavities are designed for HARTING POF ferrules.

Ferrule 1 mm POF	20 10 001 3232		The mounting/endface-preparation of the ferrule can be done by crimping, use of adhesive or by hot-plate technique.

The ferrules are snap-mounted into the male connector and can be released by removal tool 09 99 000 0052.



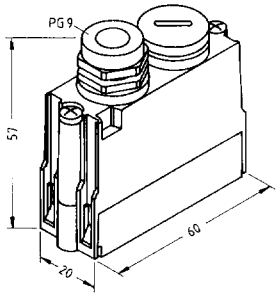
Identification	Part No.	Drawing	Dimensions in mm
F. O. D-Sub T/R hybrid (15 way female shell size)			
angled	20 66 015 3811*		6 electrical contacts: Pin No. 1, 2, 9, 7, 8, 15
F. O. D-Sub hybrid (15 way male shell size)	20 67 015 3811*		Male contacts in crimp-version

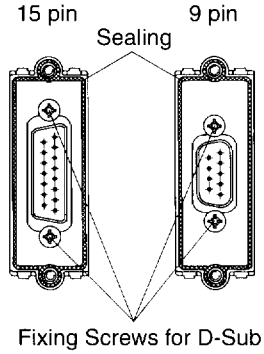
Cavities are designed for HARTING POF ferrules.

Crimp-contacts for male connector, housings and accessories see page 23 and 28 to 35.

Special hood
D-Sub
Protection level IP 65

9 pin	20 80 009 3811*
15 pin	20 80 015 3811*





Fixing Screws for D-Sub

Specifications

General data at 25 °C

	LED	Receiver
Operating voltage		5 V DC ± 5 %
Drive current (max.)	70 mA	
Opt. power	300 µW (from 20 mA) 600 µW (from 50 mA)	
Dynamic range		4 µW ... 80 µW
Wavelength	660 nm	660 nm
Transmission rate	7 Mbit/s	TTL, 5 Mbit/s
Storage temperature	– 35 °C ... + 100 °C	– 55 °C ... + 100 °C
Operating temperature	– 30 °C ... + 85 °C	– 40 °C ... + 85 °C

El. contacts	
Operating voltage	125 V max.
Current rating	6.5 A max.

* New product: Please contact us regarding supply