

## Lens Connector

### LS 10

### 1 Channel Expanded Beam Connector

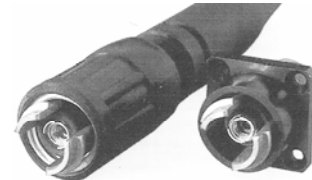
#### Description

The Expanded Beam Connector LS 10 is a simple removable, lowloss, field terminable singlechannel connecting device for fiber optic transmission under harsh environmental conditions.

The hermaphroditic connector with its trapezoidal thread is designed to meet the needs of customers in the field of mining, geology, shipyard, military and other industry

#### Main Features

- 1 optical channel for multimode fiber 50/125, 62.5/125, 100/140 and 200/230  $\mu\text{m}$
- Coated for transmission at 850 and 1300 nm
- Optical inserts with 3 mm ball lenses
- Inserts with protective window
- Rough body of anodized aluminium alloy
- Sealings of EPDM



Please note, that this picture can differ from the original housing, please see drawing on page 2.

#### Operating Conditions

Condition	min.	max.	Unit
Operating Temperature	-40	+85	°C
Storage Temperature	-55	+85	°C
Water Proof IEC 68-218Rc	1		m
Vibration 10g; 0.75 mm amplitude, IEC 68-2-Fc	10	500	Hz
Free Fall 0.5m IEC68-2-32Ed	500		times
Dust Immersion	4		Days
Low Pressure, IEC 68-2-13M, 25 kPa	4		Days
Salt Mist, IEC 68-2-11Ka, 5%NaCl	4		Days

#### Characteristics

Parameter	Condition	min.	max.	Unit
Insertion Loss <sup>1)</sup>	50/125 $\mu\text{m}$ , NA = 0.2 $\lambda = 1310 \text{ nm}$ , LD		2	dB
Voltage ( Electrical Insert ) <sup>3)</sup>			24 <sup>3)</sup>	V
Cable Strain Relief <sup>2)</sup>	Cable: A-V(ZN)2Y	2000		N
Mateability		3000		pF

Note 1: Insertion Loss measured referred to IEC 874 methode 6

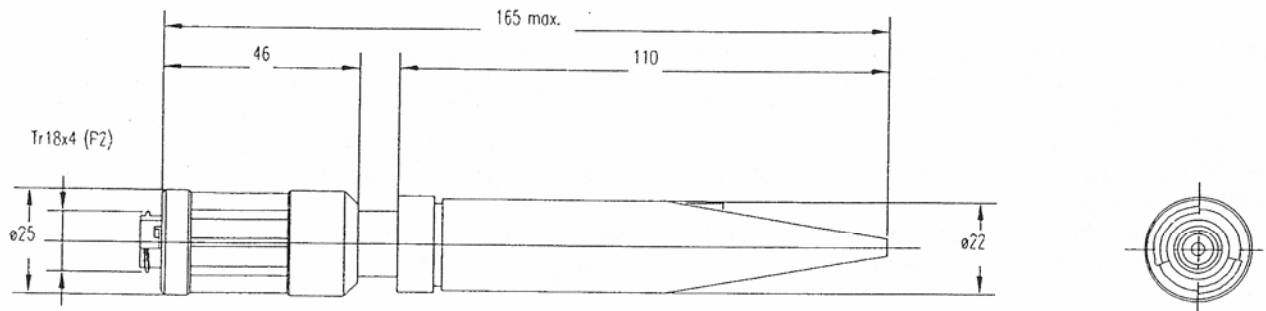
Note 2: depending on cable type

Note 3: other electrical inserts up to 6A/220 Volts on request

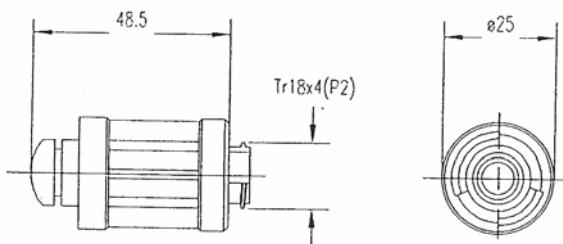
## Lens Connector

### Mechanical Outline

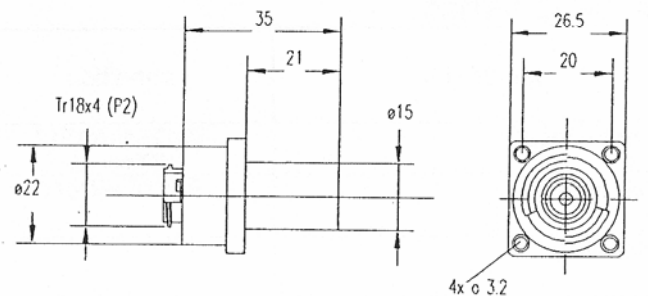
PLUG LS10



PROTECTIVE CAP SK10



BULKHEAD LG10



All Dimensions in mm

### Product Summary / Ordering Information

<b>Plug</b>	<b>LS 10</b>	(...) (w) = protective window ( as option )
<b>Bulkhead</b>	<b>LG 10</b>	(...) (w) = protective window ( as option )
<b>Protective Cap</b>	<b>SK 10</b>	

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Example: LS 10(w) Plug, size LS10, 1 optical Channels with protective window

## Lens Connector

### LS 40

### 4 Channel Expanded Beam Connector

#### Description

The Expanded Beam Connector LS 40 is a simple removable, lowloss, field terminable multichannel connecting device for fiber optic transmission under harsh environmental conditions.

The hermaphroditic connector with its trapezoidal thread is designed to meet the needs of customers in the field of mining, geology, shipyard, military and other industry

#### Main Features

- 2 or 4 optical channels for multimode fibers 50/125, 62.5/125, 100/140 and 200/230  $\mu\text{m}$
- Coated for transmission at 850 and 1300 nm
- Optical inserts with 3 mm ball lenses
- Inserts with protective window
- Combination of optical and electrical channels
- Self cleaning electrical inserts ( AU plated )
- Rough body of anodized aluminium alloy
- Sealings of EPDM
- Independent optical channel for each channel



Please note, that this picture can differ from the original housing, please see drawing on page 2.

#### Operating Conditions

Condition	min.	max.	Unit
Operating Temperature	-40	+85	°C
Storage Temperature	-55	+85	°C
Water Proof IEC 68-218Rc	1		m
Vibration 10g; 0.75 mm amplitude, IEC 68-2-Fc	10	500	Hz
Free Fall 0.5m IEC68-2-32Ed	500		times
Dust Immersion	4		Days
Low Pressure, IEC 68-2-13M, 25 kPa	4		Days
Salt Mist, IEC 68-2-11Ka, 5%NaCl	4		Days

#### Characteristics

Parameter	Condition	min.	max.	Unit
Insertion Loss <sup>1)</sup>	50/125 $\mu\text{m}$ , NA = 0.2 $\lambda = 1310 \text{ nm}$ , LD		2	dB
Voltage ( Electrical Insert ) <sup>3)</sup>			24 <sup>3)</sup>	V
Cable Strain Relief <sup>2)</sup>	Cable: A-V(ZN)2Y	2000		N
Mateability		3000		pF

Note 1: Insertion Loss measured referred to IEC 874 methode 6  
 Note 2: depending on cable type  
 Note 3: other electrical inserts up to 6A/220 Volts on request



## Lens Connector

### LS 80

### 8 Channel Expanded Beam Connector

#### Description

The Expanded Beam Connector LS 80 is a simple removable, lowloss, field terminable multichannel connecting device for fiber optic transmission under harsh environmental conditions.

The hermaphroditic connector with its trapezoidal thread is designed to meet the needs of customers in the field of mining, geology, shipyard, military and other industry

#### Main Features

- Up to 8 optical channels for multimode fibers 50/125, 62.5/125, 100/140 and 200/230  $\mu\text{m}$
- Coated for transmission at 850 and 1300 nm
- Optical inserts with 3 mm ball lenses
- Inserts with protective window
- Combination of optical and electrical channels
- Self cleaning electrical inserts ( AU plated )
- Rough body of anodized aluminium alloy
- Sealings of EPDM
- Independent optical channel for each channel



Please note, that this picture can differ from the original housing, please see drawing on page 2.

#### Operating Conditions

Condition	min.	max.	Unit
Operating Temperature	-40	+85	°C
Storage Temperature	-55	+85	°C
Water Proof IEC 68-218Rc	1		m
Vibration 10g; 0.75 mm amplitude, IEC 68-2-Fc	10	500	Hz
Free Fall 0.5m IEC68-2-32Ed	500		times
Dust Immersion	4		Days
Low Pressure, IEC 68-2-13M, 25 kPa	4		Days
Salt Mist, IEC 68-2-11Ka, 5%NaCl	4		Days

#### Characteristics

Parameter	Condition	min.	max.	Unit
Insertion Loss <sup>1)</sup>	50/125 $\mu\text{m}$ , NA = 0.2 $\lambda = 1310 \text{ nm}$ , LD		2	dB
Voltage ( Electrical Insert ) <sup>3)</sup>			24 <sup>3)</sup>	V
Cable Strain Relief <sup>2)</sup>	Cable: A-V(ZN)2Y	2000		N
Mateability		3000		pF

Note 1: Insertion Loss measured referred to IEC 874 methode 6  
 Note 2: depending on cable type  
 Note 3: other electrical inserts up to 6A/220 Volts on request

