CLK 04 SC adapters TECHNICAL FEATURES

The new adapter CLK 04 SC enables use of fibre optic SC contacts, up to 4 SC contacts per connector, for indoor or outdoor heavy duty industrial applications, with ILME connector enclosures size "21.21" series CKA (IP66/IP67/IP69, metallic, both C-TYPE, grey-painted, for normal environments, and W-TYPE black-painted, for aggressive environments, only the hood models provided with sealing gasket), series CGK/MGK (IP66/IP68/IP69, metallic, either Pg or metric-threaded cable outlet) and series CK (IP66/IP67/IP69, insulating, only the hood models provided with sealing gasket).

The fibre optic SC contacts (genderless, to be purchased separately) are available both for multi-mode fibres (50/125 μm or 62,5/125 μm) and single-mode fibre (9/125 μm). The fibre optic SC contacts are also available for the hard-clad silica (HCS) or polymer-clad fibre (PCF) 200/230 μm fibre optic cables and for the less demanding, with shorter transmission distance covered, but more cost effective POF Ø 1 mm applications, available with crimp technique version (crimping tool required).

NOTE

Due to the higher skill and training required to produce an effectively performing fibre optic junction for a single-mode type fibre-optic cable than for a multi-mode one, dedicated contacts for single-mode are available only upon request. Contact our Commercial Department for a quotation. It is more practical in such case to equip the CLK 04 SC adaptor with ready-to-use fibre optic patch cords.

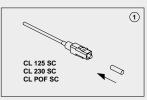
Quick assembly technique version (tool-less) for POF \varnothing 1 mm cables are also available only upon request, please send inquiry to our Commercial Department.

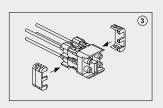
The female adapter inserts are provided with 4 ceramic (zirconia) type split alignment sleeves, for minimal insertion loss (e.g. critical network connections) and best suitable for single-mode F/O cable connections. As optional accessory, metallic (phosphor bronze) split alignment sleeves are also available for more durable (less prone to cracking) applications, but less demanding precision alignment, thus most suitable for multi-mode fibre applications.

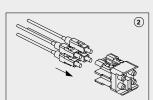
Part No. of adapter	CLK 04 SC
No. of seats/poles for optical contacts	4
Ambient temperature limit (°C)	min -40 / max +70
Degree of protection with enclosures (according to type)	IP66/ IP67 /IP69, IP66/ IP68 /IP69
Conductor connections	crimp
Mechanical endurance (rating cycles)	≥ 500
Self-extinguishing capacity UL 94	V0

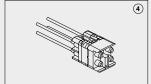
CLK 04 SC Assembling instructions

FEMALE



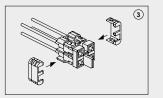


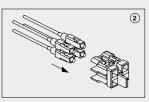


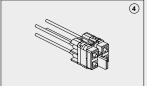


MALE









4 seats for fibre optic SC contacts **CLK adapters**

628 - 631

page:



enclosures: size "21.21"

insulating type 346 - 348 (CK IN, CKG/MKG VN)

metallic type (CKAX I, CKAX/MKAX IAP/AP/VG) (CKAG/MKAG V) 349 and 353 354 - 355 (MKAX/MKA/MKAXXIAP/AP25) 358 - 359

360 - 361 (MKAX/MKA/MKAXX VG25) (MKAX/MKA/MKAXX IF) 362 - 363

(CGK I, CGK/MGK IAP, CGK/MGK V)

adapter insert for SC connectors



crimp FO contacts



description part No. part No.

adapter insert with seats for 4 SC contacts female insert, with ceramic sleeve female insert, with metallic sleeve

CLK 04 SCF CLK 04 SCF-H CLK 04 SCM

SC contact for GI FIBRE 50/125 μm or 62.5/125 μm SC contact for 1 mm Ø POF

- inserts already supplied with stainless steel fixing screw with gasket, which ensures IP66/IP67/IP69 degree of protection
- adapter insert designed to be used with SC contacts
- SC contact for SI FIBRE (HCS_®) 200/230 μm: CL 230 SC (on request)
- base equipment for SC contact GI FIBRE:

CLKZ 125 SC

If this application is required, please contact ILME S.p.A.

- supplementary set for POF:

CLKZ POF

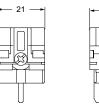
(to be ordered with CLKZ 125 SC) If this application is required, please contact ILME S.p.A.

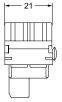
- c Sus (UL for USA and Canada), Popular VERITAS certified



- insulation resistance: ≥ 10 GΩ
- temperature range: from -40 °C to +70 °C

CLK 04 SCF, CLK 04 SCM





М



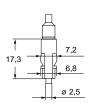


contacts side (front view)

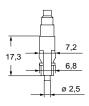




CL 125 SC CL POF SC CL 125 SC



CL POF SC



FO SC duplex patch cords CW SC patch cord

SC duplex patch cord



SC duplex patch cord



	<u>. </u>		•	
description	part No.	(L) metre	part No.	(L) metre
SC duplex patch cord, GL fibre E9/125 (YELLOW)	CW 1 SC9 CW 2 SC9 CW 3 SC9 CW 5 SC9 CW 10 SC9	1 2 3 5		
SC duplex patch cord, GL fibre G50/125 (ORANGE)			CW 1 SC50 CW 2 SC50 CW 3 SC50 CW 5 SC50 CW 10 SC50	1 2 3 5 10
SC duplex connector, GL fibre G62,5/125 (ORANGE)			CW 1 SC62 CW 2 SC62 CW 3 SC62 CW 5 SC62 CW 10 SC62	1 2 3 5 10

- operating temperature: from -5 °C \div +55 °C storage temperature: from -30 °C \div +70 °C installation temperature: from -5 °C \div +50 °C
- flame retardancy: IEC 60332-1
- halogen-free acc. to: IEC 60754-2





POF contacts series CLF DD and CLM DD

Fibre optic cables provide data transmission not subject to electromagnetic interference, contrary to copper-based (electric) data transmission.

The new fibre optic contacts **CL series (CLF DD and CLM DD)** can be used in combination with POF (polymer optical fibre) Ø 1,0 mm (core) / 2,2 mm (sheath) in ILME range of heavy duty multipole connectors, offering the following features:

- inherent immunity to EMI (electromagnetic interference);
- perfect electrical insulation;
- lightweight;
- high transmission capacity and high bandwidth;
- high data security;
- IP66/IP67 recommended to minimize impairing effect of dust contamination;
- male and female contacts CL series for POF Ø 1,0 mm (core) / 2,2 mm (sheath), with same geometry of crimp contacts CD series for conventional copper conductors;
- usable in connector inserts with contact cavities geometry of CDD series, including some modules of MIXO series and some inserts of CQ series, according to Table 1.
 Not for use in CD inserts series 1);

Table 1.

CDD series	CDDF/M 24	
NOTE – Not suitable for CDDF/M 38 /38 N	CDDF/M 42 CDDF/M 72, CDDF/M 72 N	
	CDDF/M 108, CDDF/M 108 N	
CQ series	CQF/M 07	
	CQF/M 12	
	CQF/M 17	
MIXO series	CX 12 DF/DM	
modular connectors	CX 17 DF/DM	
CX series	CXF/M 8/24	
combined connectors - aux poles	CXF/M 6/36	
number of cavities highlighted in bold	CXF/M 12/2	

1) For CD inserts series a similar solution for use of POF Ø 1 mm may be developed upon request: please contact our Sales Department or our local Subsidiaries/Distributors.



- use of alignment/coding pins on connectors/connector modules is mandatory for fibre optic applications, in order to avoid damages to contacts and in order to minimize the natural attenuation of light signal which is mainly due to inaccuracy of the mating surfaces of the POF (polishing and perfect cleanliness of the two mating fibres) and to axial misalignment;
- POF to be stripped, crimped, cut and polished according to instructions on pages besides.
- for size "77.62" 2-insert combinations use JCHI 32 L/LP (page 120 catalogue XDG JEI 415) or a special version with stainless steel rigid lever available upon request.
- for the installation of fibre optic, it is recommended to use only bulkhead mounting housings and corresponding hoods with vertical cable outlet.



Watch our online tutorial

CLF DD / CLM DD



inserts:		page:
CDD	(10A)	76 - 83
CQF/M 07	(10A)	187
CQF/M 12	(10A)	189
CQF/M 17	(10A)	193
CXF/M 8/24	(10A)	194
CXF/M 6/36	(10A)	198
CXF/M 12/2	(10A)	199
MIXO CX 12 DF/DM	(10A)	281
MIXO CX 17 DF/DM	(10A)	282



description	part N

female contacts for POF* male contacts for POF*

CLF DD CLM DD

*POF = Polymer Optical Fibre

- ambient temperature limit: -40 °C ... +85 °C max external diameter: 2,2 $\,$ mm (POF)

- polymer fibre diameter: 1 mm (POF)
 to crimp contacts CLF DD and CLM DD please use tool
- we recommend use of guide pins CRM/CRF (refer to page 685)

