

## JUNCTION BOX FXW – LC

By using the SMPTE connectors over the transmission distances the junction box provides you excellent properties for data transmissions in harsh environments. By transferring the IP68 protected connector to standard connectors you as a user are able to connect your active devices in controlled environments with a simple patch cord. This secures against environmental influences additionally. Furthermore the hybrid connectors are able to provide power supply up to 300 V<sub>AC</sub>. Due the ferrule-based connector structure the ferrules have physical contact in plugged state so that the typical insertion loss is below 0.5dB. Another on-road tested feature is the push-pull locking which simplifies the handling.

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### BENEFITS

- Rugged, compact housing
- transmission over long distances with IP68 secured connectors
- different mounting possibilities
- Ferrule-based connectors offer low insertion loss
- Easy handling by push-pull locking
- Combination of optical fibers for data transmission with power conductors possible
- Developed for HDTV technology
- Entire junction box is splash-proof

### VARIATION

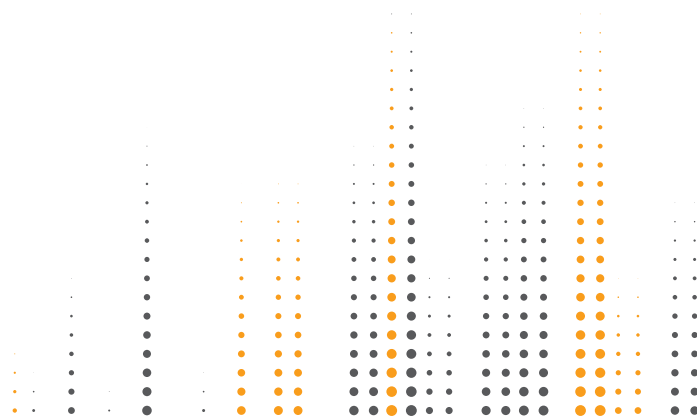
- With power input via XLR connectors available
- As mobile junction box or for 19" rack mounting
- More connectors of the 3K.93C series can be provided
- More colors and surfaces on request

## CONNECTOR SPECIFICATIONS

## SIDE A

Connector nomination		FXW 3K.93C
Standards		SMPTE 304M
Ferrule		Zirconia, Ø 2.0 mm, spring-loaded
Connector dimension		61.0 mm
Suitable for cable diameter		0.9 mm to 3.0 mm
Operating temperature		-55 °C to +90 °C
Housing	Material	Stainless steel/ brass
	Dust cap	Thermoplastic elastomer, black
Mechanical properties	Mating cycles	20.000 (Stainless steel)
	Strain relief on terminated cable	150N
Optical properties	Typ. Insertion loss (IL)	≤ 0.5 dB (method C)
	Typ. Return loss (RL)	≥ 45 dB UPC

\*properties are based on 3K.93C series, Fab.: LEMO



## SIDE B

Adapter nomination	LC Duplex
Standards	DIN EN 50173-1, IEC 24702, IEC 61076-3
Protection class	IP 67
Housing	Metal housing for improved durability
Dimension (L x W x H)	27.70 x 22.20 x 42.00 mm
Mounting style	2- hole flange mounting
Locking method	Push-Pull
Mating cycles	1,000
Sleeve	Ceramic, slotted
Flammability class	UL 94V-0

\*properties are based on V14 Bulkhead, Fab.: Metz Connect

## DISTRIBUTION SPECIFICATIONS

Dimensions [mm]	Height	50
	Width	105
	Length	160
Material	Aluminum	
Color	Black anodized	
	Plastic-cover similar to RAL 9005	
Weight without connectors	Approx. 500 g	
Features	Entire junction box is splash-proof	

