

Technical data of MSA123-XLR / -XLROP

HV one piece silicon rubber joint with reinforced shrink sleeve

Manufacturer	PFISTERER Ixosil AG
Country	Switzerland
Type designation	MSA123-XLR
Application	screen interruption
Applied standard	IEC 60840:2011

Highest voltage (IEC 60840:2011)

Rated voltage (U)	110 - 115 kV
Highest voltage (Um)	123 kV
(Uo) for determination of test voltage	64 kV
Max. design voltage to ground	71 kV

Electrical type test levels (IEC 60840:2011)

AC withstand voltage 30 min	160 kV
Lightning impulse voltage test (BIL)	550 kV
Heating cycles (AC voltage, 2Uo)	128 kV
Partial discharge test < 5pc at 1.5 Uo	96 kV
Sectionalizer BIL (across shield)	60 kV
Sectionalizer BIL (to ground)	30 kV
Sectionalizer DC 1 min (across shield)	25 kV

Electrical routine test levels (IEC 60840:2011)

AC withstand voltage 30 min	160 kV
Partial discharge test < 5pc at 1.5 Uo	96 kV
Each stress control part tested	yes

Current conditions

max. current rating	same as cable
max. thermal short circuit current (1s)	63 kA
	max. same as cable

Stress control

Field control method	geometrical
Type	pre-moulded
Material	silicone rubber
Production method	injection moulding
Production environment	clean room

Outer joint protection

First shrink sleeve type	standard
Second shrink sleeve type	glass-fibre reinforced

Connector

Material	copper or aluminium
Conductor range size A (approx.)	≤ 1600 mm²
Conductor range size B (approx.)	≤ 2500 mm²
Connection methods	
bolted	≤ 2500 mm²
compression	≤ 2000 mm²

Dimension of joint

Joint body lengths A / B	2300 / 2300 mm
Joint body diameter A / B	250 / 280 mm
Weight A / B	21 / 25 kg

Cable type

Type	all types
Diameter over insulation A	46-86 mm
Diameter over insulation B	86.1-122 mm
Range of overall cable diameter	150 mm

Cable screen connection for

Wire screen	compression sleeve
Lead sheath	hose clamp or plumbing
Corrugated Al & Cu	hose clamp or plumbing
Screen transition	flat copper lead

Cross-bonding

Screen take out	two
Bonding lead	supplied by customer
Type of bonding lead	single lead
Bonding lead connection	max. 630 mm²
Connectors with water barrier	yes

Packing wooden box

Gross weight 6 pcs. A / B (approx.)	250 kg
Woodex box	standard
Installation instruction for each kit	yes

Installation

Installation work	only by certified fitters
Installation temperature	min. 0 / max. +45 °C
Site conditions	clean environment

Storage

Conditions	clean and dry
Long-term storage temperature	min. 0 / max. +25 °C
Shelf life items	2 years
Non-shelf life items	10 years
Expected service life after installation	40 years

IEC
60840

100%
Tested

Maintenance
Free