

BO INSTRU WTR49 FIRE IS/OS 500V RE-2X(St)H PIMF -40°C to +90°C

MGT+XLPE/IS/OS/LSZH 500V

Wide temperature range -40° to +90°C



Image for illustration only

Conductor:	Plain bare copper stranded conductors acc. to IEC 60228 class 5
Insulation:	MICA GLASS TAPE (MGT) XLPE (2X) compound - TS EN 50290-2-29
Colour Code:	Pairs: Black - White (each numbered) Triples: Black -White-Red (each numbered)
Wrapping:	Cores twisted to form a pair (or triples)
Screen 1 (-IS):	Applied over the single pair/triad will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm, over the screen will be placed a further Mylar tape.
Screen 2 (-OS):	Applied over total assembly will be wrapped with polyester tape and shielded with Aluminium/Mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30 mm size 0,5sqmm.
Outer Sheath:	LSZH - M16 LSZH extruded compound Black (xx=BK), Blue (xx=BL), grey (xx=GY), or on request
Cable Printing:	Botec Kabel GmbH BO-INSTRU WTR49 FIRE IS/OS RE-2X(St)H PIMF 500V section P/N (-40°C - +90°C) IEC 60331/ IEC 60754-1 -CE- Y/M MM
Technical Data & Standard References	Flame retardant according to IEC 60332-3-24, CEI 20-22/3 Low smoke and Halogen free as per IEC 60754-2, CEI 20-37/2 Low smoke density emiss. IEC 61034 1/2 Hydrocarbon and UV resistant Fire resistant EN50200 PH120 / IEC 60331 Cable for intrinsically safe application This cable is suitable to be used in ATEX area following the EN60079-14 prescription (excluding annex C)
Electrical & Mechanical Data	Operating temperature -40 +90°C (laying temperature up to 0°C) max. Conductor temperature +90 °C Rated Voltage 500 V Test voltage 2,0 kV AC 1 min. Inductance </= 0,90 mH/Km Capacitance /= 0,200 µF/Km Bending radius 16X Outer diam.

TECHNICAL DATA AND PRODUCT FEATURES

	TEMPERATURE RANGE -40°C +90°C (laying temperature up to 0°C)
	WORKING VOLTAGE 500 V
	TEST VOLTAGE 2000 V
	APPROVALS ATEX area following the EN60079-14 prescription (excluding annex E)
	HALOGEN FREE IEC 60754-1
	FIRE RESISTANCE IEC 60331/ EN50200 PH120

Application: In Instrumentation and control engineering analog and digital signal transmission, in chemistry industry, Petrochemical industry, Power plants, Indoors and outdoors, dry, damp and wet environments, Gas Stations... Suitable for outdoor and underground use.

Size mm ²	Thickness mm
0,75	0,70 +/-0,02
1,00	0,70 +/-0,02
1,50	0,70 +/-0,02
2,50	0,70 +/-0,02
4,00	0,70 +/-0,02
6,00	0,70 +/-0,02
10,00	0,70 +/-0,02

P/N	Number of cores x cross section	Copper weight (kg/km)	Approx overall diam. (mm) +/-10%	Approx. weight (kg/km)
463910102075xx	1x2x0,75	15	9,00	120
463910202075xx	2x2x0,75	29	14,00	240
463910402075xx	4x2x0,75	58	16,20	340
463910103075xx	1x3x0,75	22	9,80	150
463910203075xx	2x3x0,75	43	14,80	260
463910102100xx	1x2x1,0	19	9,60	140
463910202100xx	2x2x1,0	38	14,50	260
463910402100xx	4x2x1,0	77	16,00	350
463910103100xx	1x3x1,0	29	10,20	160
463910203100xx	2x3x1,0	58	16,20	300
463910102150xx	1x2x1,5	29	10,50	150
463910202150xx	2x2x1,5	58	16,00	310
463910402150xx	4x2x1,5	115	17,00	400
463910103150xx	1x3x1,5	43	10,80	180
463910203150xx	2x3x1,5	86	17,60	400