

BO-COMNET FIRE-OS A300

BO- ARMoured FIRE RESISTANT INSTRUMENTATION OS SCREENED CABLE ACC. TO EN 50288-7 in Grey, Blue or Black

Type: Flex-TCu/MGT/XLPE/OS/LSZH/SWB/LSZH 300/500V



Image for illustration only

Conductor:	Flexible tinned copper conductor acc. to IEC 60228 cl.5
Fire barrier:	Mica glass fibre tape
Insulation:	Cross-linked XLPE extruded compound, thickness 0,6mm
Laying up:	twisted pairs (white-black for pairs); or triads (blue-red-black for triads); 6X1mm ² (-blue 1 -black 1 -brown 1 & -blue 2 -black 2 -brown 2)
Overall shield:	Applied over the total assembly will be wrapped and shielded with Aluminium/mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned drain wire 7x0,30mm (size 0,5mm ²)
Inner sheath:	LSZH compound type flame retardant, type M1, thickness 1mm
Armour:	SWB, Galvanized steel wires braid (thickness: 0,3mm), total thickness min. 0,5mm
Outer sheath:	LSZH compound type flame retardant, type M1, Grey or Blue Thickness from 1,4mm to 2mm
Marking(ink-jet)	Botec Kabel GmbH BO-COMNET FIRE-OS A300 x mm ² / P/N 300/500V LSZH UV- OIL- & Hydrocarbon Resistant IEC60331-21 -CE- M/Y M/M
Technical Data & Standard References	Standards: - Flame retardant according to IEC60332.3-22 and IEC60332.1-2 - Low smoke and halogen free as per IEC60754-2, CEI20-37/2 - Fire resistant according to IEC 60331-21
	Features: - UV resistant - Rodent resistant - Hydrocarbon resistant
Electrical & Mechanical Data	- Working temperature -20°C + 90°C - nominal voltage : U0/U 300V/500V - test voltage : 1500V - Inductance : 0,90 mH/Km - Capacitance: 0,200microF/Km - L/R Ratio: 40 microH/Ohm - Minimum bending radius: 12 x od

Application: Tinned copper conductor instrumentation cable fit for petrochemical environments also in harsh applications. Suitable also for outdoor installation, directly buried. Strong mechanical protection thanks to armouring. In fire event cable will maintain circuit integrity for a certain period of time.

Grey outer sheath colour

Botec P/N	Cores x size mm ²	Nominal diam. Under armour (+/- 10%) mm	Nominal overall diam. (+/- 10%) mm	Cable weight kg/km	Conductor resistance Ohm/km
501000060050	6x0,5				40,0
50100203075	2x3x0,75	13,60	18,50	520	26,70
50100006100	6x1	12,60	17,00	470	20,10
50100102100	1x2x1	9,30	13,20	260	20,10
50100202100	2x2x1	10,80	14,80	340	20,10
50100103100	1x3x1	10,00	14,00	300	20,10
50100203100	2x3x1	16,00	20,00	550	20,10
50100402150	4x2x1,5	19,00	23,00	750	13,96
50100302150	3x2x1,5	16,50	21,00	680	13,96
50100802150	8x2x1,5	24,50	28,50	1160	13,96
50101202150	12x2x1,5	29,00	33,00	1560	13,96
50100103150	1x3x1,5	10,20	14,20	330	13,96
50100203150	2x3x1,5	19,40	23,40	680	13,96

Blue outer sheath colour

Botec P/N	Cores x size mm ²	Nominal diam. Under armour (+/- 10%) mm	Nominal overall diam. (+/- 10%) mm	Cable weight kg/km	Conductor resistance Ohm/km
501000060050	6x0,5				40,0
50100203075	2x3x0,75	13,60	18,50	520	26,70
50100006100	6x1	12,60	17,00	470	20,10
50100102100	1x2x1	9,30	13,20	260	20,10
50100202100	2x2x1	10,80	14,80	340	20,10
50100103100	1x3x1	10,00	14,00	300	20,10
50100203100	2x3x1	16,00	20,00	550	20,10
50100402150	1x2x1,5	10,50	14,50	300	13,96
50100302150	3x2x1,5	16,50	21,00	680	13,96
50150402150	4x2x1,5	19,00	23,00	750	13,96
50100802150	8x2x1,5	24,50	28,50	1160	13,96
50101202150	12x2x1,5	29,00	33,00	1560	13,96
50100103150	1x3x1,5	10,20	14,20	330	13,96
50100203150	2x3x1,5	19,40	23,40	680	13,96

Black outer sheath colour

Botec P/N	Cores x size mm ²	Nominal diam. Under armour (+/- 10%) mm	Nominal overall diam. (+/- 10%) mm	Cable weight kg/km	Conductor resistance Ohm/km
1000060050	6x0,5				40,10
100006100	6x1	12,60	17,00	470	20,10
1000102150	1x2x1,5	10,50	14,80	300	13,96