

BO-COMNET FIRE-IS-OS A300**BO- ARMoured FIRE RESISTANT INSTRUMENTATION IS+OS SCREENED CABLE****ACC. TO EN 50288-7 in Grey or Blue****Type: Flex-TCu/MGT/XLPE/IS/OS/LSZH/SWB/LSZH 300V**

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- Conductor:** Flexible tinned copper conductor acc. to IEC 60228 cl.5 size 1,5mm² (28x0,25 mm) diam. 1,55mm
- Fire barrier:** Mica glass fibre tape
- Insulation:** Cross-linked XLPE extruded compound, thickness 0,6 mm
- Laying up:** twisted pairs (white-black for pairs); or triads (blue-red-black for triads)
- Individual screen:** on each pair/triple polyester tape + aluminium/mylar tape 100% coverage and 25% overlap with metal side in contact with a tinned copper drain wire 7x0,30mm (size 0,5mm²), and over the screen a further mylar tape
- Assembly:** pairs or triads assembled in a bundle
- 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 0,5mm²)
- 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 +Art., year, description of cable, UV, oil and hydrocarbon resistant
IEC 60331-21, metric,
- Technical data:**
- Working temperature -20°C + 90°C
 - nominal voltage : U0/U 300V/300V
 - test voltage : 1500V
 - Insulation resistance : $\geq 1000\text{M}\Omega \times \text{km}$
 - Conductor resistance 13,3 ohm/Km (+ 5% for multipair)
 - Inductance : $\leq 0,90 \text{ mH/Km}$
 - Capacitance : $\leq 0,200\text{microF/Km}$
 - L/R Ratio : $\leq 40 \text{ microH/}\Omega$
 - Minimum bending radius : 12 x od
- 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

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. Very good electrical parameters thanks to double shield. 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
50200402150	4x2x1,5	20,00	24,00	810
50200802150	8x2x1,5	24,90	29,00	1290
50201202150	12x2x1,5	29,80	34,00	1750
50200403150	4x3x1,5	23,00	27,00	1050
50200803150	8x3x1,5	30,00	34,00	1700

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
50250402150	4x2x1,5	20,00	24,00	810
50250802150	8x2x1,5	24,90	29,00	1290
50251202150	12x2x1,5	29,80	34,00	1750
50250403150	4x3x1,5	23,00	27,00	1050
50250803150	8x3x1,5	30,00	34,00	1700