

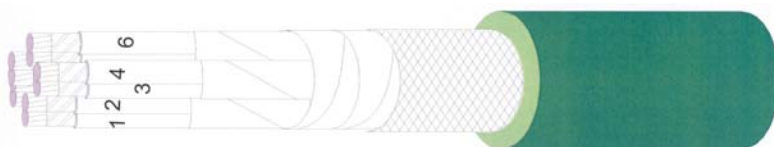


Shipline FR, BXOI 250V Instrumentation cable

Fire resistant and flame retardant halogen-free instrumentation cable. Braided

BXOI 250V

MGT/HFXLPE/TCWB/PO



Operating temperature : 90°C
Operating Voltage : 250V

Application

Armoured fire resistant cable for fixed installation in ships where cable protection is required. Recommended for instrumentation, communication, control, alarm, emergency and critical systems. Can be installed and operated both indoors and outdoors.

Standards applied

IEC 60092-376	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Construction

	Code Letter	
Conductor		Annealed stranded circular copper, IEC 60228 class 2
Insulation	B	Mica-tape + HFXLPE, IEC 60092-351 (HFXLPE)
Pair / Triple / Quad twisting		Numbered cores twisted together and wrapped with polyester tape. Pairs are twisted together and wrapped with polyester tape. The pairs are twisted with different lay length to reduce mutual interference. Pairs are identified by numbered tape.
Inner covering	X	PET tape
Armour/screen	O	Tinned annealed copper wire braid
Tape over armour/screen		Additional tape may be applied
Outer sheath	I	Flame retardant halogen-free thermoplastic compound, SHF1
Marking text		E.g. "meter" "är" DRAKA 01 BXOI 250V 10 PAIR 0,75 mm2 IEC 60092-376 IEC 60331-21 IEC 60332-3-22 ShipLine
Manufacturing unit		DRAKA 01 = Draka Norsk Kabel, DRAKA 02 = Draka Kabel BV Amsterdam, DRAKA 03 = Draka Kabel BV Emmen
Outer sheath colour		Green



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Core identification instrumentation cables

The pairs have the following number identification according to IEC 60092-376	Core no.
Pair no. 1	1 - 2
Pair no. 2	3 - 4
Pair no. 3	5 - 6
Pair no. 4	7 - 8
Pair no. 5	etc - etc
The two pair cable may also be built up as a star quad	1 - 3 - 2 - 4

Range and dimensions

Number of elements	No of cores in element	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	2	0.75	1.1	0.7	0.2	1	8.5 ± 0.5	95	44
1	4	0.75	1.1	0.7	0.2	1.1	10 ± 0.8	130	58
1	2	1.5	1.6	0.7	0.2	1	9.5 ± 0.5	115	58
1	4	1.5	1.6	0.7	0.2	1.1	11 ± 0.8	165	86

Electrical values instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair/quad 0,75 mm ²	55	0.75	24.5	15.31
Unshielded pair/quad 1,5 mm ²	65	0.67	12.1	27.69

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
839800	BXOI 250V 1PAIR 0.75mm ²	GREEN	7021528398007	1065000	125560NN	8711401030931
839801	BXOI 250V 1QUAD 0.75mm ²	GREEN	7021528398014	1065001	-	-
839840	BXOI 250V 1PAIR 1.5mm ²	GREEN	7021528398403	1065040	127041NN	8711401058065
839841	BXOI 250V 1QUAD 1.5mm ²	GREEN	7021528398410	1065041	-	-

Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm ²	-10°C