



Flame retardant halogen-free instrumentation cable. Braided

TXOI 250V

HFXLPE/TCWB/PO

Operating temperature : 90°C
 Operating Voltage : 250V

Application

Armoured cable for fixed installation in ships where cable protection is required. Suitable for use on instrumentation and communication systems. Can be installed and operated both indoors and outdoors.

Standards applied

IEC 60092-376 (2003-05)	- 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 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

Construction

	Code Letter	
Conductor		Annealed stranded circular copper, IEC 60228 class 2
Insulation	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Pair / Triple / Quad twisting		Numbered white cores are twisted in pairs/triples. (The two pair cable is stranded into a star quad) All the pairs are twisted with different lay length to reduce mutual interference.
Inner covering	X	No inner covering. (Additional tapes may be applied)
Armour/screen	O	Tinned 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" "year" DRAKA 01 TXOI 250V 4 PAIR 0,75 mm ² IEC 60092-376 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		Grey

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
The triple cable has the following number identification	1 - 2 - 3

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	0.5	0.9	0.4	0.2	1	6 ± 0.5	65	31
1	4	0.5	0.9	0.4	0.2	1	7 ± 0.5	80	40
2	2	0.5	0.9	0.4	0.2	1	9 ± 0.5	95	48
4	2	0.5	0.9	0.4	0.2	1.1	10.5 ± 0.8	140	74
7	2	0.5	0.9	0.4	0.2	1.2	12 ± 0.8	205	110
10	2	0.5	0.9	0.4	0.3	1.3	15.5 ± 0.8	310	176
14	2	0.5	0.9	0.4	0.3	1.3	16.5 ± 0.8	380	230
19	2	0.5	0.9	0.4	0.3	1.4	18 ± 0.8	480	294
24	2	0.5	0.9	0.4	0.3	1.5	21 ± 1	600	374
1	2	0.75	1.1	0.5	0.2	1	7 ± 0.5	80	42
1	4	0.75	1.1	0.5	0.2	1	8 ± 0.5	105	57
2	2	0.75	1.1	0.5	0.2	1.1	10.5 ± 0.8	130	65
4	2	0.75	1.1	0.5	0.2	1.2	12 ± 0.8	190	100
7	2	0.75	1.1	0.5	0.2	1.2	14.5 ± 0.8	265	149
10	2	0.75	1.1	0.5	0.3	1.4	18.5 ± 0.8	430	254
14	2	0.75	1.1	0.5	0.3	1.4	20 ± 1	520	310
19	2	0.75	1.1	0.5	0.3	1.5	22 ± 1	650	396
24	2	0.75	1.1	0.5	0.3	1.7	25.5 ± 1	830	506

Electrical values instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (ohm/km)
Unshielded pair 0,5 mm ²	70	0.60	40.4
Unshielded pair 0,75 mm ²	65	0.60	26.0

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.	KDN Part number	EAN no. KDN
832400	TXOI 250V 1PAIR 0.5mm ²	GREY	7021528324006	1045860	-	-
832402	TXOI 250V 1QUAD 0.5mm ²	GREY	7021528324020	1045861	-	-
832404	TXOI 250V 2PAIR 0.5mm ²	GREY	7021528324044	-	-	-
832406	TXOI 250V 4PAIR 0.5mm ²	GREY	7021528324068	1045862	-	-
832408	TXOI 250V 7PAIR 0.5mm ²	GREY	7021528324082	1045863	-	-
832410	TXOI 250V 10PAIR 0.5mm ²	GREY	7021528324105	1045864	-	-
832412	TXOI 250V 14PAIR 0.5mm ²	GREY	7021528324129	1045865	-	-
832414	TXOI 250V 19PAIR 0.5mm ²	GREY	7021528324143	1045866	-	-
832416	TXOI 250V 24PAIR 0.5mm ²	GREY	7021528324167	1045867	-	-
832450	TXOI 250V 1PAIR 0.75mm ²	GREY	7021528324501	1045870	-	-
832452	TXOI 250V 1QUAD 0.75mm ²	GREY	7021528324525	1045871	-	-
832454	TXOI 250V 2PAIR 0.75mm ²	GREY	7021528324549	-	-	-
832456	TXOI 250V 4PAIR 0.75mm ²	GREY	7021528324563	1045872	-	-
832458	TXOI 250V 7PAIR 0.75mm ²	GREY	7021528324587	1045873	-	-
832460	TXOI 250V 10PAIR 0.75mm ²	GREY	7021528324600	1045874	-	-
832462	TXOI 250V 14PAIR 0.75mm ²	GREY	7021528324624	1045875	-	-
832464	TXOI 250V 19PAIR 0.75mm ²	GREY	7021528324648	1045876	-	-
832466	TXOI 250V 24PAIR 0.75mm ²	GREY	7021528324662	1045877	-	-

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