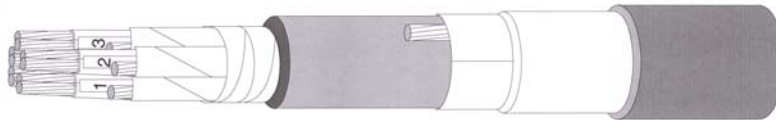




PetroBlock TFLP(i) 250V Instrumentation cable

Flame retardant cable for instrumentation and telecommunication. Screened cable for outdoor and underground installation. The PetroBlock barrier provides excellent protection against moisture, hydrocarbons and other chemicals and solvents in the ground.



TFLP(i) 250V

XLPE/LSTPE/AL/PA/PVC

Operating temperature : 90°C
Operating Voltage : 250V

Standards applied

- IEC 60092-376 - Design
- IEC 60228 class 2 - Conductor
- IEC 60092-351 - Insulation
- IEC 60092-359 - Sheath
- IEC 60332-1 - Flame Retardant

Application

Fixed installation outdoor and underground for instrumentation and communication systems in harsh environments both in EX- and safe areas.

Construction

	Code Letter	
Conductor		Annealed stranded circular copper(SCC), IEC 60228 class 2
Insulation	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Pair / Triple / Quad twisting		Color coded cores twisted together to a pair/triple. Pairs/Triples are shielded by aluminium backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
Inner covering	F	Flame retardant and halogen-free thermoplastic compound
Armour/screen	L	The PetroBlock barrier. Aluminium foil longitudinally wrapped and laminated to a polyamide sheath. A flexible tinned drain wire underneath the aluminium foil.
Outer sheath	P	Polyvinyl chloride (PVC), IEC 60092-359(ST2)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL TFLP(i) 250V 4 PAIR 0,75 mm ² S201 IEC 60092-376 IEC 60332-1
Outer sheath colour		Grey or Blue

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Core identification instrumentation cables

Pair - Black - Light Blue

Triple - Black - Light Blue - Brown

Quad - Black - Light Blue - Brown - Grey

Range and dimensions

Number of elements	No of cores in element	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Moisture Barrier, 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	0.5	1.1	6.5 ± 0.5	9.5 ± 0.5	1.1	12 ± 0.8	185	25
1	2	0.75	1.1	0.5	1.1	6.5 ± 0.5	9.5 ± 0.5	1.1	12 ± 0.8	185	25
2	2	0.75	1.1	0.5	1.1	10 ± 0.8	13 ± 0.8	1.2	15.5 ± 0.8	270	42
2	2	0.75	1.1	0.5	1.1	10 ± 0.8	13 ± 0.8	1.2	15.5 ± 0.8	270	42
4	2	0.75	1.1	0.5	1.1	11.5 ± 0.8	15 ± 0.8	1.3	17.5 ± 0.8	360	78
4	2	0.75	1.1	0.5	1.1	11.5 ± 0.8	15 ± 0.8	1.3	17.5 ± 0.8	360	78
8	2	0.75	1.1	0.5	1.1	15.5 ± 0.8	18.5 ± 0.8	1.5	21.5 ± 1	570	149
10	2	0.75	1.1	0.5	1.2	18 ± 0.8	21 ± 1	1.5	24 ± 1	670	184
10	2	0.75	1.1	0.5	1.2	18 ± 0.8	21 ± 1	1.5	24 ± 1	670	184
16	2	0.75	1.1	0.5	1.4	21 ± 1	24.5 ± 1	1.6	27.5 ± 1	920	290
16	2	0.75	1.1	0.5	1.4	21 ± 1	24.5 ± 1	1.6	27.5 ± 1	920	290
24	2	0.75	1.1	0.5	1.6	26 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1330	432
1	3	0.75	1.1	0.5	1.1	6.5 ± 0.5	10 ± 0.8	1.1	12 ± 0.8	195	32
1	3	0.75	1.1	0.5	1.1	6.5 ± 0.5	10 ± 0.8	1.1	12 ± 0.8	195	32
2	3	0.75	1.1	0.5	1.1	11 ± 0.8	14.5 ± 0.8	1.3	17 ± 0.8	320	56
2	3	0.75	1.1	0.5	1.1	11 ± 0.8	14.5 ± 0.8	1.3	17 ± 0.8	320	56
4	3	0.75	1.1	0.5	1.1	13 ± 0.8	16 ± 0.8	1.4	19 ± 0.8	430	106
4	3	0.75	1.1	0.5	1.1	13 ± 0.8	16 ± 0.8	1.4	19 ± 0.8	430	106
8	3	0.75	1.1	0.5	1.1	16.5 ± 0.8	20 ± 1	1.5	23 ± 1	680	205
10	3	0.75	1.1	0.5	1.2	20.5 ± 1	23.5 ± 1	1.6	26.5 ± 1	820	254
10	3	0.75	1.1	0.5	1.2	20.5 ± 1	23.5 ± 1	1.6	26.5 ± 1	820	254
16	3	0.75	1.1	0.5	1.4	24 ± 1	27 ± 1	1.7	30.5 ± 1.5	1150	402
16	3	0.75	1.1	0.5	1.4	24 ± 1	27 ± 1	1.7	30.5 ± 1.5	1150	402
1	2	1.5	1.6	0.6	1.1	8 ± 0.5	11 ± 0.8	1.1	13.5 ± 0.8	225	41
1	2	1.5	1.6	0.6	1.1	8 ± 0.5	11 ± 0.8	1.1	13.5 ± 0.8	225	41
2	2	1.5	1.6	0.6	1.1	12.5 ± 0.8	16 ± 0.8	1.3	18.5 ± 0.8	370	76
2	2	1.5	1.6	0.6	1.1	12.5 ± 0.8	16 ± 0.8	1.3	18.5 ± 0.8	370	76
4	2	1.5	1.6	0.6	1.1	15 ± 0.8	18 ± 0.8	1.4	21 ± 1	510	145
4	2	1.5	1.6	0.6	1.1	15 ± 0.8	18 ± 0.8	1.4	21 ± 1	510	145
8	2	1.5	1.6	0.6	1.1	19.5 ± 0.8	22.5 ± 1	1.6	25.5 ± 1	830	282
10	2	1.5	1.6	0.6	1.2	23 ± 1	26.5 ± 1	1.7	30 ± 1.5	1010	352
10	2	1.5	1.6	0.6	1.2	23 ± 1	26.5 ± 1	1.7	30 ± 1.5	1010	352
16	2	1.5	1.6	0.6	1.4	27.5 ± 1	31 ± 1.5	1.8	34.5 ± 1	1450	559



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Number of elements	No of cores in element	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Moisture Barrier, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
16	2	1.5	1.6	0.6	1.4	27.5 ± 1	31 ± 1.5	1.8	1.5 34.5 ± 1.5	1450	559
1	3	1.5	1.6	0.6	1.1	8.5 ± 0.5	11.5 ± 0.8	1.2	14 ± 0.8	255	56
1	3	1.5	1.6	0.6	1.1	8.5 ± 0.5	11.5 ± 0.8	1.2	14 ± 0.8	255	56
2	3	1.5	1.6	0.6	1.1	14 ± 0.8	17.5 ± 0.8	1.4	20 ± 1	440	104
2	3	1.5	1.6	0.6	1.1	14 ± 0.8	17.5 ± 0.8	1.4	20 ± 1	440	104
4	3	1.5	1.6	0.6	1.1	16.5 ± 0.8	20 ± 1	1.5	23 ± 1	640	201
4	3	1.5	1.6	0.6	1.1	16.5 ± 0.8	20 ± 1	1.5	23 ± 1	630	200
8	3	1.5	1.6	0.6	1.1	21 ± 1	24.5 ± 1	1.7	28 ± 1	1030	395
10	3	1.5	1.6	0.6	1.2	26 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1300	493
10	3	1.5	1.6	0.6	1.2	26 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1300	493
16	3	1.5	1.6	0.6	1.4	31 ± 1.5	34.5 ± 1.5	2	38.5 ± 1.5	1870	784
16	3	1.5	1.6	0.6	1.4	31 ± 1.5	34.5 ± 1.5	2	38.5 ± 1.5	1860	780
1	2	2.5	2	0.6	1.1	9 ± 0.5	12 ± 0.8	1.2	14.5 ± 0.8	275	61
8	2	2.5	2	0.6	1.1	22 ± 1	25 ± 1	1.7	28.5 ± 1	1090	440
8	3	2.5	2	0.6	1.1	24 ± 1	27.5 ± 1	1.8	31 ± 1.5	1370	625

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)
Shielded pair 0,75 mm ²	75	0,64	26,0	12,3
Shielded triple 0,75 mm ²	75	0,64	26,0	12,3
Shielded pair 1,5 mm ²	80	0,60	12,8	23,4
Shielded triple 1,5 mm ²	80	0,60	12,8	23,4
Shielded pair 2,5 mm ²	95	0,57	7,86	36,3
Shielded triple 2,5 mm ²	95	0,57	7,86	36,3

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
857200	TFLP(I) 1PAIR 0.75mm ² S201	GREY	7021528572001	-
857201	TFLP(I) 1PAIR 0.75mm ² S201	BLUE	7021528572018	-
857206	TFLP(I) 2PAIR 0.75mm ² S201	GREY	7021528572063	-
857207	TFLP(I) 2PAIR 0.75mm ² S201	BLUE	7021528572070	-
857218	TFLP(I) 4PAIR 0.75mm ² S201	GREY	7021528572186	-
857219	TFLP(I) 4PAIR 0.75mm ² S201	BLUE	7021528572193	-
857230	TFLP(I) 8PAIR 0.75mm ² S201	GREY	7021528572308	-
857233	TFLP(I) 10PAIR 0.75mm ² S201	GREY	7021528572339	-
857234	TFLP(I) 10PAIR 0.75mm ² S201	BLUE	7021528572346	-
857242	TFLP(I) 16PAIR 0.75mm ² S201	GREY	7021528572421	-
857243	TFLP(I) 16PAIR 0.75mm ² S201	BLUE	7021528572438	-

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Part number	Description	Sheath Colour	EAN No. DNK	EL No.
857248	TFLP(I) 24PAIR 0.75mm ² S201	GREY	7021528572483	-
857260	TFLP(I) 1TRIP 0.75mm ² S201	GREY	7021528572605	-
857261	TFLP(I) 1TRIP 0.75mm ² S201	BLUE	7021528572612	-
857266	TFLP(I) 2TRIP 0.75mm ² S201	GREY	7021528572667	-
857267	TFLP(I) 2TRIP 0.75mm ² S201	BLUE	7021528572674	-
857278	TFLP(I) 4TRIP 0.75mm ² S201	GREY	7021528572780	-
857279	TFLP(I) 4TRIP 0.75mm ² S201	BLUE	7021528572797	-
857290	TFLP(I) 8TRIP 0.75mm ² S201	GREY	7021528572902	-
857293	TFLP(I) 10TRIP 0.75mm ² S201	GREY	7021528572933	-
857294	TFLP(I) 10TRIP 0.75mm ² S201	BLUE	7021528572940	-
857302	TFLP(I) 16TRIP 0.75mm ² S201	GREY	7021528573022	-
857303	TFLP(I) 16TRIP 0.75mm ² S201	BLUE	7021528573039	-
857400	TFLP(I) 1PAIR 1.5mm ² S201	GREY	7021528574005	-
857401	TFLP(I) 1PAIR 1.5mm ² S201	BLUE	7021528574012	-
857406	TFLP(I) 2PAIR 1.5mm ² S201	GREY	7021528574067	-
857407	TFLP(I) 2PAIR 1.5mm ² S201	BLUE	7021528574074	-
857418	TFLP(I) 4PAIR 1.5mm ² S201	GREY	7021528574180	-
857419	TFLP(I) 4PAIR 1.5mm ² S201	BLUE	7021528574197	-
857430	TFLP(I) 8PAIR 1.5mm ² S201	GREY	7021528574302	-
857433	TFLP(I) 10PAIR 1.5mm ² S201	GREY	7021528574333	-
857434	TFLP(I) 10PAIR 1.5mm ² S201	BLUE	7021528574340	-
857442	TFLP(I) 16PAIR 1.5mm ² S201	GREY	7021528574425	-
857443	TFLP(I) 16PAIR 1.5mm ² S201	BLUE	7021528574432	-
857460	TFLP(I) 1TRIP 1.5mm ² S201	GREY	7021528574609	-
857461	TFLP(I) 1TRIP 1.5mm ² S201	BLUE	7021528574616	-
857466	TFLP(I) 2TRIP 1.5mm ² S201	GREY	7021528574661	-
857467	TFLP(I) 2TRIP 1.5mm ² S201	BLUE	7021528574678	-
857478	TFLP(I) 4TRIP 1.5mm ² S201	GREY	7021528574784	-
857479	TFLP(I) 4TRIP 1.5mm ² S201	BLUE	7021528574791	-
857490	TFLP(I) 8TRIP 1.5mm ² S201	GREY	7021528574906	-
857493	TFLP(I) 10TRIP 1.5mm ² S201	GREY	7021528574937	-
857494	TFLP(I) 10TRIP 1.5mm ² S201	BLUE	7021528574944	-
857502	TFLP(I) 16TRIP 1.5mm ² S201	GREY	7021528575026	-
857503	TFLP(I) 16TRIP 1.5mm ² S201	BLUE	7021528575033	-
857600	TFLP(I) 1PAIR 2.5mm ² S201	GREY	7021528576009	-
857630	TFLP(I) 8PAIR 2.5mm ² S201	GREY	7021528576306	-
857690	TFLP(I) 8TRIP 2.5mm ² S201	GREY	7021528576900	-

Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
20 x D	12 x D	50 N /mm ²	-10°C