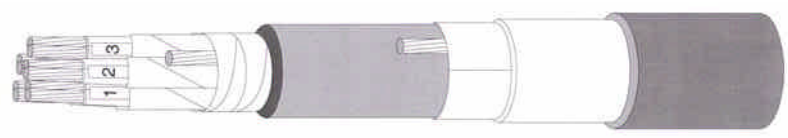
PetroBlock TFLP(c) 250V Instrumentation cable



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(c) 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 and wrapped with polyester tape. Pairs/Triples are laid up collectively and shielded by aluminium backed polyester tape with tinned copper drain wire. 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(c) 250V 4 PAIR 0,75 mm2 S206 IEC 60092-376 IEC 60332-1
Outer sheath colour		Grey or Blue

Subject to change without prior notice

PetroBlock TFLP(c) 250V Instrumentation cable

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, mm²	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)
2	2	1.5	1.6	0.6	1.1	12.5 ± 0.8	16 ± 0.8	1.3	18.5 ± 0.8	370	69
2	2	1.5	1.6	0.6	1.1	12.5 ± 0.8	16 ± 0.8	1.3	18.5 ± 0.8	370	69
4	2	1.5	1.6	0.6	1.1	14.5 ± 0.8	18 ± 0.8	1.4	20.5 ± 1	490	125
4	2	1.5	1.6	0.6	1.1	14.5 ± 0.8	18 ± 0.8	1.4	20.5 ± 1	490	125
8	2	1.5	1.6	0.6	1.1	19 ± 0.8	22.5 ± 1	1.5	25.5 ± 1	770	237
10	2	1.5	1.6	0.6	1.2	22.5 ± 1	25.5 ± 1	1.6	28.5 ± 1	910	293
10	2	1.5	1.6	0.6	1.2	22.5 ± 1	25.5 ± 1	1.6	28.5 ± 1	910	293
16	2	1.5	1.6	0.6	1.4	25.5 ± 1	29 ± 1	1.8	32.5 ± 1.5	1300	461
16	2	1.5	1.6	0.6	1.4	25.5 ± 1	29 ± 1	1.8	32.5 ± 1.5	1300	461
24	2	1.5	1.6	0.6	1.8	32 ± 1.5	35.5 ± 1.5	2	39.5 ± 1.5	1870	684
24	2	1.5	1.6	0.6	1.8	32 ± 1.5	35.5 ± 1.5	2	39.5 ± 1.5	1870	684
2	3	1.5	1.6	0.6	1.1	14 ± 0.8	17.5 ± 0.8	1.3	20 ± 1	430	97
2	3	1.5	1.6	0.6	1.1	14 ± 0.8	17.5 ± 0.8	1.3	20 ± 1	430	97
4	3	1.5	1.6	0.6	1.1	16.5 ± 0.8	20 ± 1	1.4	22.5 ± 1	600	181
4	3	1.5	1.6	0.6	1.1	16.5 ± 0.8	20 ± 1	1.4	22.5 ± 1	600	181
8	3	1.5	1.6	0.6	1.1	21 ± 1	24.5 ± 1	1.6	27.5 ± 1	970	349
10	3	1.5	1.6	0.6	1.2	25.5 ± 1	29 ± 1	1.8	32.5 ± 1.5	1220	433
10	3	1.5	1.6	0.6	1.2	25.5 ± 1	29 ± 1	1.8	32.5 ± 1.5	1220	433
12	3	1.5	1.6	0.6	1.2	25.5 ± 1	28.5 ± 1	1.8	32.1 ± 1.5	1309	492
16	3	1.5	1.6	0.6	1.4	29 ± 1	32.5 ± 1.5	1.9	36.5 ± 1.5	1700	685
16	3	1.5	1.6	0.6	1.4	29 ± 1	32.5 ± 1.5	1.9	36.5 ± 1.5	1700	682
24	3	1.5	1.6	0.6	1.8	36 ± 1.5	39.5 ± 1.5	2.2	44 ± 2	2460	1021
24	3	1.5	1.6	0.6	1.8	36 ± 1.5	39.5 ± 1.5	2.2	44 ± 2	2460	1016
2	2	2.5	2	0.6	1.1	14 ± 0.8	17.5 ± 0.8	1.4	20 ± 1	450	107
4	2	2.5	2	0.6	1.1	16.5 ± 0.8	20 ± 1	1.4	22.5 ± 1	610	199
8	2	2.5	2	0.6	1.1	21.5 ± 1	25 ± 1	1.6	28 ± 1	1000	384
10	2	2.5	2	0.6	1.2	25.5 ± 1	29 ± 1	1.8	32.5 ± 1.5	1240	476

Subject to change without prior notice

PetroBlock TFLP(c) 250V Instrumentation cable

Number of elements	No of cores in element	Cross section core, mm²	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)
10	2	2.5	2	0.6	1.2	25.5 ± 1	29 ± 1	1.8	32.5 ± 1.5	1240	476
12	2	2.5	2	0.6	1.3	26.5 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1390	568
16	2	2.5	2	0.6	1.4	29 ± 1	32.5 ± 1.5	1.9	36.5 ± 1.5	1730	752
24	2	2.5	2	0.6	1.8	36 ± 1.5	39.5 ± 1.5	2.2	44 ± 2	2520	1120
8	3	2.5	2	0.6	1.1	24 ± 1	27 ± 1	1.7	30.5 ± 1.5	1290	569
24	3	2.5	2	0.6	1.8	41 ± 2	45 ± 2	2.3	49.5 ± 2	3370	1675

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 0,75 mm²	70	0,64	26,0	12,3
Unshielded triple 0,75 mm²	70	0,64	26,0	12,3
Unshielded pair 1,5 mm²	75	0,60	12,8	23,4
Unshielded triple 1,5 mm²	75	0,60	12,8	23,4
Unshielded pair 2,5 mm²	85	0,57	7,86	36,3
Unshielded triple 2,5 mm²	85	0,57	7,86	36,3

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
858006	TFLP(C) 2PAIR 1.5mm² S206	GREY	7021528580068	-
858007	TFLP(C) 2PAIR 1.5mm² S206	BLUE	7021528580075	-
858018	TFLP(C) 4PAIR 1.5mm² S206	GREY	7021528580181	-
858019	TFLP(C) 4PAIR 1.5mm² S206	BLUE	7021528580198	-
858030	TFLP(C) 8PAIR 1.5mm² S206	GREY	7021528580303	-
858033	TFLP(C) 10PAIR 1.5mm² S206	GREY	7021528580334	-
858034	TFLP(C) 10PAIR 1.5mm² S206	BLUE	7021528580341	-
858042	TFLP(C) 16PAIR 1.5mm² S206	GREY	7021528580426	-
858043	TFLP(C) 16PAIR 1.5mm² S206	BLUE	7021528580433	-
858048	TFLP(C) 24PAIR 1.5mm² S206	GREY	7021528580488	-
858049	TFLP(C) 24PAIR 1.5mm² S206	BLUE	7021528580495	-
858066	TFLP(C) 2TRIP 1.5mm² S206	GREY	7021528580662	-
858067	TFLP(C) 2TRIP 1.5mm² S206	BLUE	7021528580679	-
858078	TFLP(C) 4TRIP 1.5mm² S206	GREY	7021528580785	-
858079	TFLP(C) 4TRIP 1.5mm² S206	BLUE	7021528580792	-
858090	TFLP(C) 8TRIP 1.5mm² S206	GREY	7021528580907	-
858093	TFLP(C) 10TRIP 1.5mm² S206	GREY	7021528580938	-
858094	TFLP(C) 10TRIP 1.5mm² S206	BLUE	7021528580945	-
858096	TFLP(C) 12TRIP 1.5mm² S206	GREY	7021528580969	-
858102	TFLP(C) 16TRIP 1.5mm² S206	GREY	7021528581027	-
858103	TFLP(C) 16TRIP 1.5mm² S206	BLUE	7021528581034	-
858108	TFLP(C) 24TRIP 1.5mm² S206	GREY	7021528581089	-
858109	TFLP(C) 24TRIP 1.5mm² S206	BLUE	7021528581096	-
858206	TFLP(C) 2PAIR 2.5mm² S206	GREY	7021528582062	-
858218	TFLP(C) 4PAIR 2.5mm² S206	GREY	7021528582185	-
858230	TFLP(C) 8PAIR 2.5mm² S206	GREY	7021528582307	-
858233	TFLP(C) 10PAIR 2.5mm² S206	GREY	7021528582338	-
858234	TFLP(C) 10PAIR 2.5mm² S206	BLUE	7021528582345	-
858236	TFLP(C) 12PAIR 2.5mm² S206	GREY	7021528582369	-

Subject to change without prior notice

PetroBlock TFLP(c) 250V Instrumentation cable

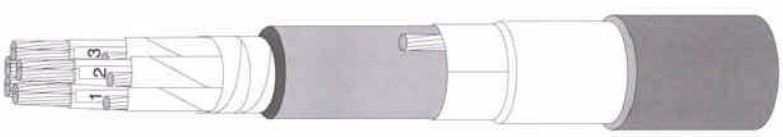
Part number	Description	Sheath Colour	EAN No. DNK	EL No.
858242	TFLP(C) 16PAIR 2.5mm² S206	GREY	7021528582420	-
858248	TFLP(C) 24PAIR 2.5mm² S206	GREY	7021528582482	-
858290	TFLP(C) 8TRIP 2.5mm² S206	GREY	7021528582901	-
858308	TFLP(C) 24TRIP 2.5mm² S206	GREY	7021528583083	-

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 /mm²	-10°C

Subject to change without prior notice

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

Application

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

Standards applied

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

Construction

	Code Letter	
Conductor		Annealed stranded circular copper, IEC 60228 class 2
Insulation	**T**	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Pair / Triple / Quad twisting		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up and individually 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 mm2 S201 IEC 60092-376 IEC 60332-1
Outer sheath colour		Grey or Blue

Subject to change without prior notice

PetroBlock TFLP(i) 250V Instrumentation cable

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, mm²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Bedding, mm	Diameter bedding, 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	44
2	2	0.75	1.1	0.5	1.1	10 ± 0.8	13 ± 0.8	1.2	15.5 ± 0.8	270	44
4	2	0.75	1.1	0.5	1.1	11.5 ± 0.8	15 ± 0.8	1.3	17.5 ± 0.8	370	80
4	2	0.75	1.1	0.5	1.1	11.5 ± 0.8	15 ± 0.8	1.3	17.5 ± 0.8	370	80
10	2	0.75	1.1	0.5	1.2	18 ± 0.8	21 ± 1	1.5	24 ± 1	670	190
10	2	0.75	1.1	0.5	1.2	18 ± 0.8	21 ± 1	1.5	24 ± 1	670	190
16	2	0.75	1.1	0.5	1.4	21 ± 1	24.5 ± 1	1.6	27.5 ± 1	930	300
16	2	0.75	1.1	0.5	1.4	21 ± 1	24.5 ± 1	1.6	27.5 ± 1	930	300
24	2	0.75	1.1	0.5	1.6	26 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1350	447
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	58
2	3	0.75	1.1	0.5	1.1	11 ± 0.8	14.5 ± 0.8	1.3	17 ± 0.8	320	58
4	3	0.75	1.1	0.5	1.1	13 ± 0.8	16 ± 0.8	1.4	19 ± 0.8	440	108
4	3	0.75	1.1	0.5	1.1	13 ± 0.8	16 ± 0.8	1.4	19 ± 0.8	440	108
10	3	0.75	1.1	0.5	1.2	20.5 ± 1	23.5 ± 1	1.6	26.5 ± 1	830	260
10	3	0.75	1.1	0.5	1.2	20.5 ± 1	23.5 ± 1	1.6	26.5 ± 1	830	260
16	3	0.75	1.1	0.5	1.4	24 ± 1	27 ± 1	1.7	30.5 ± 1.5	1160	412
16	3	0.75	1.1	0.5	1.4	24 ± 1	27 ± 1	1.7	30.5 ± 1.5	1160	412
1	2	1.5	1.6	0.6	1.1	8 ± 0.5	11 ± 0.8	1.1	13.5 ± 0.8	230	41
1	2	1.5	1.6	0.6	1.1	8 ± 0.5	11 ± 0.8	1.1	13.5 ± 0.8	230	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	144
4	2	1.5	1.6	0.6	1.1	15 ± 0.8	18 ± 0.8	1.4	21 ± 1	510	144
10	2	1.5	1.6	0.6	1.2	23 ± 1	26.5 ± 1	1.7	30 ± 1.5	1010	350
10	2	1.5	1.6	0.6	1.2	23 ± 1	26.5 ± 1	1.7	30 ± 1.5	1010	350
16	2	1.5	1.6	0.6	1.4	27.5 ± 1	31 ± 1.5	1.8	34.5 ± 1.5	1450	557
16	2	1.5	1.6	0.6	1.4	27.5 ± 1	31 ± 1.5	1.8	34.5 ± 1.5	1450	557
1	3	1.5	1.6	0.6	1.1	8.5 ± 0.5	11.5 ± 0.8	1.2	14 ± 0.8	255	55
1	3	1.5	1.6	0.6	1.1	8.5 ± 0.5	11.5 ±	1.2	14 ± 0.8	255	55

Subject to change without prior notice

PetroBlock TFLP(i) 250V Instrumentation cable

Number of elements	No of cores in element	Cross section core, mm²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Bedding, mm	Diameter bedding, mm	Diameter Moisture Barrier, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	3	1.5	1.6	0.6	1.1	14 ± 0.8	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	630	200
4	3	1.5	1.6	0.6	1.1	16.5 ± 0.8	20 ± 1	1.5	23 ± 1	630	200
10	3	1.5	1.6	0.6	1.2	26 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1300	490
10	3	1.5	1.6	0.6	1.2	26 ± 1	30 ± 1.5	1.8	33.5 ± 1.5	1300	490
16	3	1.5	1.6	0.6	1.4	31 ± 1.5	34.5 ± 1.5	2	38.5 ± 1.5	1860	780
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

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 mm²	75	0,64	24,5	13,1
Shielded triple 0,75 mm²	75	0,64	24,5	13,1
Shielded pair 1,5 mm²	80	0,60	12,1	24,8
Shielded triple 1,5 mm²	80	0,60	12,1	24,8
Shielded pair 2,5 mm²	95	0,57	7,41	38,5
Shielded triple 2,5 mm²	95	0,57	7,41	38,5

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
857200	TFLP(I) 1PAIR 0.75mm² S201	GREY	7021528572001	-
857201	TFLP(I) 1PAIR 0.75mm² S201	BLUE	7021528572018	-
857206	TFLP(I) 2PAIR 0.75mm² S201	GREY	7021528572063	-
857207	TFLP(I) 2PAIR 0.75mm² S201	BLUE	7021528572070	-
857218	TFLP(I) 4PAIR 0.75mm² S201	GREY	7021528572186	-
857219	TFLP(I) 4PAIR 0.75mm² S201	BLUE	7021528572193	-
857233	TFLP(I) 10PAIR 0.75mm² S201	GREY	7021528572339	-
857234	TFLP(I) 10PAIR 0.75mm² S201	BLUE	7021528572346	-
857242	TFLP(I) 16PAIR 0.75mm² S201	GREY	7021528572421	-
857243	TFLP(I) 16PAIR 0.75mm² S201	BLUE	7021528572438	-
857248	TFLP(I) 24PAIR 0.75mm² S201	GREY	7021528572483	-
857260	TFLP(I) 1TRIP 0.75mm² S201	GREY	7021528572605	-
857261	TFLP(I) 1TRIP 0.75mm² S201	BLUE	7021528572612	-
857266	TFLP(I) 2TRIP 0.75mm² S201	GREY	7021528572667	-
857267	TFLP(I) 2TRIP 0.75mm² S201	BLUE	7021528572674	-
857278	TFLP(I) 4TRIP 0.75mm² S201	GREY	7021528572780	-
857279	TFLP(I) 4TRIP 0.75mm² S201	BLUE	7021528572797	-
857293	TFLP(I) 10TRIP 0.75mm² S201	GREY	7021528572933	-
857294	TFLP(I) 10TRIP 0.75mm² S201	BLUE	7021528572940	-
857302	TFLP(I) 16TRIP 0.75mm² S201	GREY	7021528573022	-
857303	TFLP(I) 16TRIP 0.75mm² S201	BLUE	7021528573039	-
857400	TFLP(I) 1PAIR 1.5mm² S201	GREY	7021528574005	-

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PetroBlock TFLP(i) 250V Instrumentation cable

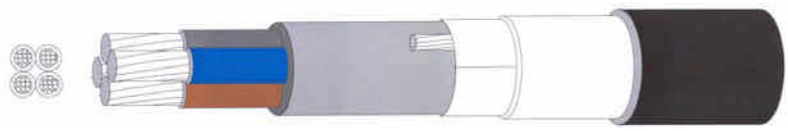
Part number	Description	Sheath Colour	EAN No. DNK	EL No.
857401	TFLP(I) 1PAIR 1.5mm² S201	BLUE	7021528574012	-
857406	TFLP(I) 2PAIR 1.5mm² S201	GREY	7021528574067	-
857407	TFLP(I) 2PAIR 1.5mm² S201	BLUE	7021528574074	-
857418	TFLP(I) 4PAIR 1.5mm² S201	GREY	7021528574180	-
857419	TFLP(I) 4PAIR 1.5mm² S201	BLUE	7021528574197	-
857433	TFLP(I) 10PAIR 1.5mm² S201	GREY	7021528574333	-
857434	TFLP(I) 10PAIR 1.5mm² S201	BLUE	7021528574340	-
857442	TFLP(I) 16PAIR 1.5mm² S201	GREY	7021528574425	-
857443	TFLP(I) 16PAIR 1.5mm² S201	BLUE	7021528574432	-
857460	TFLP(I) 1TRIP 1.5mm² S201	GREY	7021528574609	-
857461	TFLP(I) 1TRIP 1.5mm² S201	BLUE	7021528574616	-
857466	TFLP(I) 2TRIP 1.5mm² S201	GREY	7021528574661	-
857467	TFLP(I) 2TRIP 1.5mm² S201	BLUE	7021528574678	-
857478	TFLP(I) 4TRIP 1.5mm² S201	GREY	7021528574784	-
857479	TFLP(I) 4TRIP 1.5mm² S201	BLUE	7021528574791	-
857493	TFLP(I) 10TRIP 1.5mm² S201	GREY	7021528574937	-
857494	TFLP(I) 10TRIP 1.5mm² S201	BLUE	7021528574944	-
857502	TFLP(I) 16TRIP 1.5mm² S201	GREY	7021528575026	-
857503	TFLP(I) 16TRIP 1.5mm² S201	BLUE	7021528575033	-
857600	TFLP(I) 1PAIR 2.5mm² S201	GREY	7021528576009	-

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 /mm²	-10°C

Subject to change without prior notice

PetroBlock TFLP 0,6/1kV Power cable



Flame retardant cable for power, control and lighting. 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 0,6/1kV

HFXLPE/LSTPE/AL/PA/PVC

Operating temperature : 90°C
Operating Voltage : 0,6/1kV

Standards applied

IEC 60502-1	- 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 power, control and lighting systems in harsh environments both in EX- and safe areas.

Construction

	Code Letter	
Conductor		Annealed stranded copper, IEC 60228 class 2, stranded circular copper SCC (single core cables 1,5 ... 300 mm², multicore cables 1,5 ... 35 mm²), sector shaped copper SSC (3 and 4 core cables above 35 mm²)
Insulation	**T**	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Lay up / Shielding		Cores laid up in concentric layers
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 0,6/1kV 2 X 2,5 mm2 FR P137 IEC 60332-1
Outer sheath colour		Black

Subject to change without prior notice

PetroBlock TFLP 0,6/1kV Power cable

Core identification power cables

Single core	Black
Two cores	Blue - Brown
Three cores	Brown - Black - Grey
Four cores	Blue - Brown - Black - Grey
Five cores	Blue - Brown - Black - Grey - Black
Seven cores and above	White with black numbers
Two cores + earth (3G)	Yellow/green - Blue - Brown
Three cores + earth (4G)	Yellow/green - Brown - Black - Grey
Four cores + earth (5G)	Yellow/green - Blue - Brown - Black - Grey
G / X in cable description	G = One of the cores are yellow/green - X = no yellow/green core

Range and dimensions

Number of elements	Cross section core, mm²	Cross section screen, mm²	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)
2	1.5	1.5	1.6	0.7	1	8 ± 0.5	11.5 ± 0.8	1.8	15 ± 0.8	290	41
3	1.5	1.5	1.6	0.7	1	8.5 ± 0.5	12 ± 0.8	1.8	15.5 ± 0.8	310	54
4	1.5	1.5	1.6	0.7	1	9.5 ± 0.5	13 ± 0.8	1.8	16.5 ± 0.8	340	68
7	1.5	1.5	1.6	0.7	1	11 ± 0.8	14.5 ± 0.8	1.8	18 ± 0.8	440	110
12	1.5	1.5	1.6	0.7	1	14.5 ± 0.8	18 ± 0.8	1.8	21.5 ± 1	580	180
19	1.5	1.5	1.6	0.7	1	17 ± 0.8	20.5 ± 1	1.8	24 ± 1	790	277
48	1.5	1.5	1.6	0.7	1.4	27.5 ± 1	31 ± 1.5	1.9	35 ± 1.5	1670	682
2	2.5	2.5	2.0	0.7	1	9 ± 0.5	13.5 ± 0.8	1.8	17 ± 0.8	350	67
3	2.5	2.5	2.0	0.7	1	9.5 ± 0.5	14 ± 0.8	1.8	17.5 ± 0.8	390	90
4	2.5	2.5	2.0	0.7	1	10 ± 0.8	14.5 ± 0.8	1.8	18 ± 0.8	430	113
7	2.5	2.5	2.0	0.7	1	12.5 ± 0.8	16.5 ± 0.8	1.8	20.5 ± 1	580	182
12	2.5	2.5	2.0	0.7	1	16 ± 0.8	20.5 ± 1	1.8	24 ± 1	780	297
19	2.5	2.5	2.0	0.7	1	19 ± 0.8	23.5 ± 1	1.8	27 ± 1	1010	457
27	2.5	2.5	2.0	0.7	1	23 ± 1	27.5 ± 1	1.8	31 ± 1.5	1330	639
3G	2.5	2.5	2.0	0.7	1	9.5 ± 0.5	14 ± 0.8	1.8	17.5 ± 0.8	390	90
4G	2.5	2.5	2.0	0.7	1	10.5 ± 0.8	14.5 ± 0.8	1.8	18.5 ± 0.8	430	113
5G	2.5	2.5	2.0	0.7	1	11 ± 0.8	15.5 ± 0.8	1.8	19 ± 0.8	480	136
3G	4	2.5	2.55	0.7	1	10.5 ± 0.8	15 ± 0.8	1.8	18.5 ± 0.8	460	131
4G	4	2.5	2.55	0.7	1	11.5 ± 0.8	16 ± 0.8	1.8	19.5 ± 0.8	530	168
5G	4	2.5	2.55	0.7	1	13 ± 0.8	17 ± 0.8	1.8	21 ± 1	620	205
3G	6	2.5	3.15	0.7	1	12 ± 0.8	16.5 ± 0.8	1.8	20 ± 1	560	191
4G	6	2.5	3.15	0.7	1	13 ± 0.8	17.5 ±	1.8	21 ± 1	660	248

Subject to change without prior notice

PetroBlock TFLP 0,6/1kV Power cable

Number of elements	Cross section core, mm²	Cross section screen, mm²	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)
5G	6	2.5	3.15	0.7	1	14.5 ± 0.8	0.8 19 ± 0.8	1.8	22.5 ± 1	750	305
3	6	2.5	3.15	0.7	1	12 ± 0.8	16.5 ± 0.8	1.8	20 ± 1	560	192
12	6	2.5	3.15	0.7	1	21 ± 1	25.5 ± 1	1.8	29 ± 1	1370	746
3G	10	2.5	4.05	0.7	1	14 ± 0.8	18 ± 0.8	1.8	22 ± 1	730	293
4G	10	2.5	4.05	0.7	1	15.5 ± 0.8	19.5 ± 0.8	1.8	23 ± 1	860	384
5G	10	2.5	4.05	0.7	1	17 ± 0.8	21 ± 1	1.8	25 ± 1	940	474
2	10	2.5	4.05	0.7	1	13 ± 0.8	17.5 ± 0.8	1.8	21 ± 1	630	203
3G	16	2.5	5.15	0.7	1	16.5 ± 0.8	21 ± 1	1.8	24.5 ± 1	1000	457
4G	16	2.5	5.15	0.7	1	18 ± 0.8	22.5 ± 1	1.8	26 ± 1	1190	603
5G	16	2.5	5.15	0.7	1	20 ± 1	24.5 ± 1	1.8	28 ± 1	1310	748
3G	25	2.5	6.4	0.9	1	20 ± 1	24 ± 1	1.8	28 ± 1	1380	713
4G	25	2.5	6.4	0.9	1	22 ± 1	26.5 ± 1	1.8	30 ± 1.5	1520	943
5G	25	2.5	6.4	0.9	1	24 ± 1	28.5 ± 1	1.8	32 ± 1.5	1860	1173
3G	35	2.5	7.6	0.9	1	22.5 ± 1	27 ± 1	1.8	30.5 ± 1.5	1560	969
4G	35	2.5	7.6	0.9	1	25 ± 1	29.5 ± 1	1.8	33 ± 1.5	2150	1286
5G	35	2.5	7.6	0.9	1.2	28 ± 1	33 ± 1.5	1.9	37 ± 1.5	2670	1602
3G	50	2.5	-	1.0	1	23 ± 1	27.5 ± 1	1.9	31.5 ± 1.5	2180	1306
4G	50	2.5	-	1.0	1	25.5 ± 1	28 ± 1	2	32 ± 1.5	2670	1720
5G	50	2.5	9.0	1.0	1.2	32.5 ± 1.5	37 ± 1.5	2.1	41.5 ± 2	3570	2219
3G	70	2.5	-	1.1	1.2	26 ± 1	31 ± 1.5	2	35 ± 1.5	2950	1856
4G	70	2.5	-	1.1	1.2	30.5 ± 1.5	35.5 ± 1.5	2.1	39.5 ± 1.5	3750	2454
5G	70	2.5	10.9	1.1	1.2	38 ± 1.5	42.5 ± 2	2.2	47 ± 2	4890	3172
4G	95	2.5	-	1.1	1.2	34 ± 1.5	37 ± 1.5	2.2	41.5 ± 2	4460	3373
5G	95	2.5	12.6	1.1	1.4	43 ± 2	46 ± 2	2.3	50.5 ± 2.5	5860	4322
3G	120	2.5	-	1.2	1.4	33 ± 1.5	38 ± 1.5	2.3	42.5 ± 2	4280	3162
4G	120	2.5	-	1.2	1.4	37.5 ± 1.5	42 ± 2	2.4	47 ± 2	5500	4195
5G	120	2.5	14.2	1.2	1.4	47.5 ± 2	52.5 ± 2.5	2.5	57.5 ± 2.5	8610	5501
4G	150	2.5	-	1.4	1.4	41.5 ± 2	46.5 ± 2	2.5	51.5 ± 2.5	6730	5255
5G	150	2.5	15.9	1.4	1.4	54 ± 2.5	59 ± 2.5	2.7	64.5 ± 3	9090	6918
4G	185	2.5	-	1.6	1.4	45.5 ± 2	50.5 ± 2.5	2.7	56 ± 2.5	8230	6463
5G	185	2.5	17.7	1.6	1.6	60 ± 3	64.5 ± 3	2.9	70.5 ± 3.5	11140	8495
4G	240	2.5	-	1.7	1.6	52.5 ± 2.5	55 ± 2.5	2.9	61 ± 3	10730	8589
5G	240	2.5	20.1	1.7	2	67.5 ± 3	73.5 ± 3.5	3.1	80 ± 3.5	15440	10989
1	300	15	22.6	1.8	1.2	29 ± 1	33.5 ±	1.9	37 ± 1.5	3690	2825

Subject to change without prior notice

PetroBlock TFLP 0,6/1kV Power cable

Number of elements	Cross section core, mm²	Cross section screen, mm²	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	400	15	26	2.0	1.2	32.5 ± 1.5	1.5 35 ± 1.5	2	39 ± 1.5	4580	3586
1	500	15	29.0	2.2	1.2	36.5 ± 1.5	40.5 ± 2	2.1	45 ± 2	5750	4606

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
851000	TFLP 0.6/1kV 2X 1.5/1.5mm² FR	BLACK	7021528510003	-
851001	TFLP 0,6/1KV 3X 1,5MM2 FR P137	BLACK	7021528510010	-
851002	TFLP 0,6/1KV 4X1,5MM2 FR P137	BLACK	7021528510027	-
851003	TFLP 0,6/1KV 7X 1,5MM2 FR P137	BLACK	7021528510034	-
851006	TFLP 0,6/1KV 12X 1,5MM2 P137	BLACK	7021528510065	-
851008	TFLP 0,6/1KV 19X 1,5MM2 P137	BLACK	7021528510089	-
851019	TFLP 0,6/1KV 48X 1,5MM2 P137	BLACK	7021528510195	-
851020	TFLP 0,6/1KV 2X 2,5MM2 FR P137	BLACK	7021528510201	-
851021	TFLP 0,6/1KV 3X 2,5MM2 FR P137	BLACK	7021528510218	-
851022	TFLP 0,6/1KV 4X 2,5MM2 FR P137	BLACK	7021528510225	-
851023	TFLP 0,6/1KV 7X 2,5MM2 FR P137	BLACK	7021528510232	-
851026	TFLP 0,6/1KV 12X 2,5 FR P137	BLACK	7021528510263	-
851028	TFLP 0,6/1KV 19X 2,5 MM2 FR P137	BLACK	7021528510287	-
851030	TFLP 0,6/1KV 27X 2,5 MM2 FR P137	BLACK	7021528510300	-
851034	TFLP 0,6/1KV 3G 2,5MM2 FR P137	BLACK	7021528510348	-
851035	TFLP 0,6/1KV 4G 2,5MM2 FR P137	BLACK	7021528510355	-
851036	TFLP 0,6/1KV 5G 2,5MM2 FR P137	BLACK	7021528510362	-
851040	TFLP 0,6/1KV 3G 4 MM2 FR P137	BLACK	7021528510409	-
851041	TFLP 0,6/1KV 4G 4 MM2 FR P137	BLACK	7021528510416	-
851042	TFLP 0,6/1KV 5G 4 MM2 FR P137	BLACK	7021528510423	-
851050	TFLP 0,6/1KV 3G 6 MM2 FR P137	BLACK	7021528510508	-
851051	TFLP 0,6/1KV 4G 6 MM2 FR P137	BLACK	7021528510515	-
851052	TFLP 0,6/1KV 5G 6 MM2 FR P137	BLACK	7021528510522	-
851053	TFLP 0,6/1KV 3X 6 MM2 FR P137	BLACK	7021528510539	-
851056	TFLP 0,6/1KV 12X 6 FR P137	BLACK	7021528510560	-
851060	TFLP 0,6/1KV 3G 10 MM2 FR P137	BLACK	7021528510607	-
851061	TFLP 0,6/1KV 4G 10 MM2 FR P137	BLACK	7021528510614	-
851062	TFLP 0,6/1KV 5G 10 MM2 FR P137	BLACK	7021528510621	-
851063	TFLP 0,6/1KV 2X 10 MM2 FR P137	BLACK	7021528510638	-
851070	TFLP 0,6/1KV 3G 16 MM2 FR P137	BLACK	7021528510706	-
851071	TFLP 0,6/1KV 4G 16 MM2 FR P137	BLACK	7021528510713	-
851072	TFLP 0,6/1KV 5G 16 MM2 FR P137	BLACK	7021528510720	-
851080	TFLP 0,6/1KV 3G 25 MM2 FR P137	BLACK	7021528510805	-
851081	TFLP 0,6/1KV 4G 25 MM2 FR P137	BLACK	7021528510812	-
851082	TFLP 0,6/1KV 5G 25 MM2 FR P137	BLACK	7021528510829	-
851090	TFLP 0,6/1KV 3G 35 MM2 FR P137	BLACK	7021528510904	-
851091	TFLP 0,6/1KV 4G 35 MM2 FR P137	BLACK	7021528510911	-
851092	TFLP 0,6/1KV 5G 35 MM2 FR P137	BLACK	7021528510928	-
851100	TFLP 0,6/1KV 3G 50MM2 FV P137	BLACK	7021528511000	-
851101	TFLP 0,6/1KV 4G 50 MM2 FV P137	BLACK	7021528511017	-
851102	TFLP 0,6/1KV 5G 50 MM2 FR P137	BLACK	7021528511024	-
851110	TFLP 0,6/1KV 3G70 MM2 FV P137	BLACK	7021528511109	-

Subject to change without prior notice

PetroBlock TFLP 0,6/1kV Power cable

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
851111	TFLP 0,6/1KV 4G 70 MM2 FV P137	BLACK	7021528511116	-
851112	TFLP 0,6/1KV 5G 70 MM2 FR P137	BLACK	7021528511123	-
851121	TFLP 0,6/1KV 4G 95 MM2 FV P137	BLACK	7021528511215	-
851122	TFLP 0,6/1KV 5G 95 MM2 FR P137	BLACK	7021528511222	-
851130	TFLP 0,6/1KV 3G 120MM2 FV P137	BLACK	7021528511307	-
851131	TFLP 0,6/1KV 4G 120MM2 FV P137	BLACK	7021528511314	-
851132	TFLP 0,6/1KV 5G 120MM2 FR P137	BLACK	7021528511321	-
851141	TFLP 0,6/1KV 4G 150MM2 FV P137	BLACK	7021528511413	-
851144	TFLP 0,6/1KV 5G 150MM2 FR P137	BLACK	7021528511444	-
851151	TFLP 0,6/1KV 4G 185MM2 FV P137	BLACK	7021528511512	-
851152	TFLP 0.6/1kV 5G 185/2.5mm² FR	BLACK	7021528511529	-
851161	TFLP 0,6/1KV 4G 240MM2 FV P137	BLACK	7021528511611	-
851162	TFLP 0.6/1kV 5G 240/2.5mm² FR	BLACK	7021528511628	-
851193	TFLP 0,6/1KV 1X300 MM2 P137	BLACK	7021528511932	-
851194	TFLP 0,6/1KV 1X400 MM2 P137	BLACK	7021528511949	-
851195	TFLP 0,6/1KV 1X500 MM2 P137	BLACK	7021528511956	-

Electrical values power cables

Number of elements	Cross section core, mm²	Cross section screen, mm²	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Current rating NEN 62.75, Ampere	Short circuit rating 1 second, Ampere
2	1.5	1.5	SCC	12.1	15.43	0.099	-	210
3	1.5	1.5	SCC	12.1	15.43	0.099	-	210
4	1.5	1.5	SCC	12.1	15.43	0.099	-	210
7	1.5	1.5	SCC	12.1	15.43	0.099	-	210
12	1.5	1.5	SCC	12.1	15.43	0.099	-	210
19	1.5	1.5	SCC	12.1	15.43	0.099	-	210
48	1.5	1.5	SCC	12.1	15.43	0.099	-	210
2	2.5	2.5	SCC	7.41	0.093	0.073	-	350
3	2.5	2.5	SCC	7.41	0.093	0.073	-	350
4	2.5	2.5	SCC	7.41	0.093	0.073	-	350
7	2.5	2.5	SCC	7.41	0.093	0.073	-	350
12	2.5	2.5	SCC	7.41	0.093	0.073	-	350
19	2.5	2.5	SCC	7.41	0.093	0.073	-	350
27	2.5	2.5	SCC	7.41	0.093	0.073	-	350
3G	2.5	2.5	SCC	7.41	0.093	0.073	-	350
4G	2.5	2.5	SCC	7.41	0.093	0.073	-	350
5G	2.5	2.5	SCC	7.41	0.093	0.073	-	350
3G	4	2.5	SCC	4.61	5.88	0.086	-	560
4G	4	2.5	SCC	4.61	5.88	0.086	-	560
5G	4	2.5	SCC	4.61	5.88	0.086	-	560
3G	6	2.5	SCC	3.08	3.93	0.082	-	840
4G	6	2.5	SCC	3.08	3.93	0.082	-	840
5G	6	2.5	SCC	3.08	3.93	0.082	-	840
3	6	2.5	SCC	3.08	3.93	0.082	-	840
12	6	2.5	SCC	3.08	3.93	0.082	-	840
3G	10	2.5	SCC	1.83	2.33	0.079	-	1400
4G	10	2.5	SCC	1.83	2.33	0.079	-	1400
5G	10	2.5	SCC	1.83	2.33	0.079	-	1400
2	10	2.5	SCC	1.83	2.33	0.079	-	1400
3G	16	2.5	SCC	1.15	1.47	0.075	-	2240
4G	16	2.5	SCC	1.15	1.47	0.075	-	2240

Subject to change without prior notice

PetroBlock TFLP 0,6/1kV Power cable

Number of elements	Cross section core, mm²	Cross section screen, mm²	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Current rating NEN 62.75, Ampere	Short circuit rating 1 second, Ampere
5G	16	2.5	SCC	1.15	1.47	0.075	-	2240
3G	25	2.5	SCC	0.727	0.927	0.075	-	3500
4G	25	2.5	SCC	0.727	0.927	0.075	-	3500
5G	25	2.5	SCC	0.727	0.927	0.075	-	3500
3G	35	2.5	SCC	0.524	0.668	0.073	-	4900
4G	35	2.5	SCC	0.524	0.668	0.073	-	4900
5G	35	2.5	SCC	0.524	0.668	0.073	-	4900
3G	50	2.5	SSC	0.387	0.493	0.072	-	7000
4G	50	2.5	SSC	0.387	0.493	0.072	-	7000
5G	50	2.5	SCC	0.387	0.493	0.080	-	7000
3G	70	2.5	SSC	0.268	0.342	0.064	-	9800
4G	70	2.5	SSC	0.268	0.342	0.064	-	9800
5G	70	2.5	SCC	0.268	0.342	0.071	-	9800
4G	95	2.5	SSC	0.193	0.246	0.062	-	13300
5G	95	2.5	SCC	0.193	0.246	0.069	-	13300
3G	120	2.5	SSC	0.153	0.195	0.063	-	16800
4G	120	2.5	SSC	0.153	0.195	0.063	-	16800
5G	120	2.5	SCC	0.153	0.195	0.070	-	16800
4G	150	2.5	SSC	0.124	0.158	0.063	-	21000
5G	150	2.5	SCC	0.124	0.158	0.070	-	21000
4G	185	2.5	SSC	0.0991	0.1264	0.063	-	25900
5G	185	2.5	SCC	0.0991	0.1264	0.070	-	25900
4G	240	2.5	SSC	0.0754	0.0961	0.063	-	33600
5G	240	2.5	SCC	0.0754	0.0961	0.070	-	33600
1	300	15	SCC	0.0601	0.0766	0.087	-	42000
1	400	15	SCC	0.047	0.0599	0.087	-	56000
1	500	15	SCC	0.0366	0.0466	0.087	-	70000

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 /mm²	-10°C

Subject to change without prior notice