

PetroBlock TSLP 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.



TSLP 0,6/1kV

HFXLPE/LSTPE/CWS/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 mm ² , multicore cables 1,5 ... 35 mm ²), sector shaped copper SSC (3 and 4 core cables above 35 mm ²)
Insulation	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	S	Extruded halogenfree and flame retardant bedding. Concentric copper wire screen. Sized to be earth conductor.
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" "year" DRAKA NORSK KABEL TSLP 0,6/1KV 3 x 25FR/16 mm ² IEC 60502-1 IEC 60332-1
Outer sheath colour		Black

PetroBlock TSLP 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

Core identification - to HD308S2 - and IEC 60446:2007-05

Range and dimensions

Number of elements	Cross section core, mm ²	Cross section screen, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Wire diameter concentric conductor, 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	4	4	2.55	0.7	1	10 ± 0.8	0.61	14 ± 0.8	1.8	17.5 ± 0.8	430	107
3	4	4	2.55	0.7	1	10.5 ± 0.8	0.61	14.5 ± 0.8	1.8	18 ± 0.8	470	143
4	4	4	2.55	0.7	1	11.5 ± 0.8	0.61	15.5 ± 0.8	1.8	19 ± 0.8	530	179
2	6	6	3.15	0.7	1	11 ± 0.8	0.61	15 ± 0.8	1.8	18.5 ± 0.8	530	167
3	6	6	3.15	0.7	1	12 ± 0.8	0.61	15.5 ± 0.8	1.8	19.5 ± 0.8	590	224
4	6	6	3.15	0.7	1	13 ± 0.8	0.61	17 ± 0.8	1.8	20.5 ± 1	680	281
2	10	10	4.05	0.7	1	13 ± 0.8	0.81	17 ± 0.8	1.8	21 ± 1	710	271
3	10	10	4.05	0.7	1	14 ± 0.8	0.81	18 ± 0.8	1.8	21.5 ± 1	810	361
4	10	10	4.05	0.7	1	15.5 ± 0.8	0.81	19.5 ± 0.8	1.8	23 ± 1	940	452
2	16	16	5.15	0.7	1	15.5 ± 0.8	1.02	20 ± 1	1.8	23.5 ± 1	980	439
3	16	16	5.15	0.7	1	16.5 ± 0.8	1.02	21 ± 1	1.8	24.5 ± 1	1130	585
4	16	16	5.15	0.7	1	18 ± 0.8	1.02	23 ± 1	1.8	26.5 ± 1	1320	730
3	25	16	6.4	0.9	1	20 ± 1	1.02	24.5 ± 1	1.8	28 ± 1	1530	842
4	25	16	6.4	0.9	1	22 ± 1	1.02	26.5 ± 1	1.8	30 ± 1.5	1830	1073
3	35	16	7.55	0.9	1	22.5 ± 1	1.02	27 ± 1	1.8	30.5 ± 1.5	1910	1099
4	35	16	7.55	0.9	1	25 ± 1	0.68	29 ± 1	1.9	33 ± 1.5	2370	1412

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
851740	TSLP 0.6/1kV 2X 4FR/4mm ²	BLACK	7021528517408	-
851741	TSLP 0.6/1kV 3X 4FR/4mm ²	BLACK	7021528517415	-
851742	TSLP 0.6/1kV 4X 4FR/4mm ²	BLACK	7021528517422	-
851750	TSLP 0.6/1kV 2X 6FR/6mm ²	BLACK	7021528517507	-
851751	TSLP 0.6/1kV 3X 6FR/6mm ²	BLACK	7021528517514	-
851752	TSLP 0.6/1kV 4X 6FR/6mm ²	BLACK	7021528517521	-
851760	TSLP 0.6/1kV 2X 10FR/10mm ²	BLACK	7021528517606	-
851761	TSLP 0.6/1kV 3X 10FR/10mm ²	BLACK	7021528517613	-
851762	TSLP 0.6/1kV 4X 10FR/10mm ²	BLACK	7021528517620	-
851770	TSLP 0.6/1kV 2X 16FR/16mm ²	BLACK	7021528517705	-
851771	TSLP 0.6/1kV 3X 16FR/16mm ²	BLACK	7021528517712	-
851772	TSLP 0.6/1kV 4X 16FR/16mm ²	BLACK	7021528517729	-

www.draka.no

PetroBlock TSLP 0,6/1kV Power cable

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
851781	TSLP 0.6/1kV 3X 25FR/16mm ²	BLACK	7021528517811	-
851782	TSLP 0.6/1kV 4X 25FR/16mm ²	BLACK	7021528517828	-
851791	TSLP 0.6/1kV 3X 35FR/16mm ²	BLACK	7021528517910	-
851792	TSLP 0.6/1kV 4X 35FR/16mm ²	BLACK	7021528517927	-

Electrical values power cables

Number of elements	Cross section core, mm ²	Cross section screen, mm ²	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	4	4	SCC	4.61	5.88	0.086	-	560
3	4	4	SCC	4.61	5.88	0.086	-	560
4	4	4	SCC	4.61	5.88	0.086	-	560
2	6	6	SCC	3.08	3.93	0.082	-	840
3	6	6	SCC	3.08	3.93	0.082	-	840
4	6	6	SCC	3.08	3.93	0.082	-	840
2	10	10	SCC	1.83	2.33	0.079	-	1400
3	10	10	SCC	1.83	2.33	0.079	-	1400
4	10	10	SCC	1.83	2.33	0.079	-	1400
2	16	16	SCC	1.15	1.47	0.075	-	2240
3	16	16	SCC	1.15	1.47	0.075	-	2240
4	16	16	SCC	1.15	1.47	0.075	-	2240
3	25	16	SCC	0.727	0.927	0.075	-	3500
4	25	16	SCC	0.727	0.927	0.075	-	3500
3	35	16	SCC	0.524	0.668	0.073	-	4900
4	35	16	SCC	0.524	0.668	0.073	-	4900

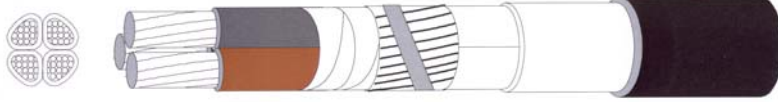
Installation recommendations

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



PetroBlock TSLP 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.



TSLP 0,6/1kV
HFXLPE/LSTPE/CWS/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 circular copper IEC 60228 class 2 for single core cables or Annealed stranded sectorshaped copper IEC 60228 class 2 for 3- and 4-core cables
Insulation	T	Crosslinked Polyethylene, IEC 60092-351 (HFXLPE)
Lay up / Shielding		Three or four sectorshaped cores laid up together. Or only one single core in the cable.
Inner covering	S	Wrapped halogenfree bedding (PP-tape). Concentric copper wire screen. Sized to be earth conductor.
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" "year" DRAKA NORSK KABEL TSLP 0,6/1KV 3 x 95FV/50 mm2 IEC 60502-1 IEC 60332-1
Outer sheath colour		Black

PetroBlock TSLP 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

Core identification - to HD308S2 - and IEC 60446:2007-05

Range and dimensions

Number of elements	Cross section core, mm ²	Cross section screen, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Wire diameter concentric conductor, mm	Diameter Moisture Barrier, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	50	25	-	1.0	0.68	25.5 ± 1	1.9	29.5 ± 1	1980	1468
4	50	25	-	1.0	0.68	28 ± 1	2	32 ± 1.5	2480	1883
3	70	35	-	1.1	1.37	30 ± 1.5	2.1	34 ± 1.5	2760	2118
4	70	35	-	1.1	1.37	34.5 ± 1.5	2.2	39 ± 1.5	3500	2715
3	95	50	-	1.1	1.37	34.5 ± 1.5	2.2	39 ± 1.5	3720	2942
4	95	50	-	1.1	1.37	38 ± 1.5	2.3	42.5 ± 2	4660	3770
3	120	70	-	1.2	1.37	36.5 ± 1.5	2.3	41.5 ± 2	4620	3801
4	120	70	-	1.2	1.37	41 ± 2	2.4	46 ± 2	5800	4834
3	150	70	-	1.4	1.37	41 ± 2	2.5	46 ± 2	5610	4582
4	150	70	-	1.4	1.37	45 ± 2	2.6	50.5 ± 2.5	7020	5874
3	185	95	-	1.6	1.37	44.5 ± 2	2.6	49.5 ± 2	6940	5756
3	240	120	-	1.7	1.745	49.5 ± 2	2.8	55.5 ± 2.5	8840	7472
1	95	16	12.6	1.1	1.02	19.5 ± 0.8	1.8	23.5 ± 1	1350	1009
1	300	50	22.6	2.0	1.37	33 ± 1.5	1.9	36.5 ± 1.5	4100	3418
1	400	70	26	2.0	1.37	36.5 ± 1.5	2.1	40.5 ± 2	5000	4182

Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
851801	TSLP 0.6/1kV 3X 50FV/25mm ²	BLACK	7021528518016	-
851802	TSLP 0.6/1kV 4X 50FV/25mm ²	BLACK	7021528518023	-
851811	TSLP 0.6/1kV 3X 70FV/35mm ²	BLACK	7021528518115	-
851812	TSLP 0.6/1kV 4X 70FV/35mm ²	BLACK	7021528518122	-
851821	TSLP 0.6/1kV 3X 95FV/50mm ²	BLACK	7021528518214	-
851822	TSLP 0.6/1kV 4X 95FV/50mm ²	BLACK	7021528518221	-
851831	TSLP 0.6/1kV 3X 120FV/70mm ²	BLACK	7021528518313	-
851832	TSLP 0.6/1kV 4X 120FV/70mm ²	BLACK	7021528518320	-
851841	TSLP 0.6/1kV 3X 150FV/70mm ²	BLACK	7021528518412	-
851842	TSLP 0.6/1kV 4X 150FV/70mm ²	BLACK	7021528518429	-
851851	TSLP 0.6/1kV 3X 185FV/95mm ²	BLACK	7021528518511	-
851861	TSLP 0.6/1kV 3X 240FV/120mm ²	BLACK	7021528518610	-
851888	TSLP 0.6/1kV 1X 95FR/16mm ²	BLACK	7021528518887	-
851893	TSLP 0.6/1kV 1X 300FR/50mm ²	BLACK	7021528518931	-
851894	TSLP 0.6/1kV 1X 400FR/70mm ²	BLACK	7021528518948	-

Electrical values power cables

Number of elements	Cross section core, mm ²	Cross section screen, mm ²	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
3	50	25	SSC	0.387	0.493	0.072	-	7000

www.draka.no

PetroBlock TSLP 0,6/1kV Power cable

Number of elements	Cross section core, mm ²	Cross section screen, mm ²	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
4	50	25	SSC	0.387	0.493	0.072	-	7000
3	70	35	SSC	0.268	0.342	0.064	-	9800
4	70	35	SSC	0.268	0.342	0.064	-	9800
3	95	50	SSC	0.193	0.246	0.062	-	13300
4	95	50	SSC	0.193	0.246	0.062	-	13300
3	120	70	SSC	0.153	0.195	0.063	-	16800
4	120	70	SSC	0.153	0.195	0.063	-	16800
3	150	70	SSC	0.124	0.158	0.063	-	21000
4	150	70	SSC	0.124	0.158	0.063	-	21000
3	185	95	SSC	0.0991	0.1264	0.063	-	25900
3	240	120	SSC	0.0754	0.0961	0.063	-	33600
1	95	16	SCC	0.193	0.246	0.091	-	13300
1	300	50	SCC	0.0601	0.0766	0.087	-	42000
1	400	70	SCC	0.047	0.0599	0.087	-	56000

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