



# PetroBlock TSLP 12/20(24)kV MV Power cable

**Cable for medium voltage power distribution. 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 12/20(24)kV

HFXLPE/LSTPE/CWS/AL/PA/PVC

**Operating temperature : 90°C**  
**Operating Voltage : 12/20(24)kV**

### Application

Fixed installation outdoor and underground for medium voltage power distribution systems in harsh environments both in EX- and safe areas.

#### Standards applied

IEC 60502-2	- Design
IEC 60228 class 2	- Conductor
IEC 60502-2	- Insulation
IEC 60502-2	- Sheath
IEC 60332-1	- Flame Retardant

### Construction

	CODE LETTER	
<b>Conductor</b>		Stranded circular compacted copper, IEC 60228 class 2
<b>Conductor screen semiconductive</b>		Extruded semiconductive layer
<b>Insulation</b>	<b>T</b>	Crosslinked Polyethylene, IEC 60502-2 (XLPE)
<b>Insulation screen semiconductive</b>		Extruded semiconductive layer
<b>Lay up</b>		Three insulated conductors are laid up together with three polypropylene-yarns in the interstices between them to make the cable core round.
<b>Bedding</b>	<b>S</b>	The cable core is wrapped with a semiconductive PA tape and a semiconductive foamed tape. Concentric copper wire screen. Sized to be earth conductor.
<b>Armour/screen</b>	<b>L</b>	The PetroBlock barrier. Aluminium foil longitudinally wrapped and laminated to a polyamide sheath.
<b>Outer sheath</b>	<b>P</b>	Polyvinyl chloride (PVC), IEC 60502-2(ST2)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL TSLP 24KV 3X 95 FR/50 mm2 P147
<b>Outer sheath colour</b>		Black



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### Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	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)
1	150	25	14.1	5.5	0.68	34.5 ± 1.5	2	38.5 ± 1.5	2520	1513
1	300	35	20.5	5.5	1.37	42.5 ± 2	2.2	47 ± 2	4400	3140
1	400	35	22.8	5.5	1.37	45 ± 2	2.3	49.5 ± 2	5320	3919
1	630	50	29.8	5.5	1.37	52 ± 2.5	2.5	57 ± 2.5	7510	6222
3	95	50	11.2	5.5	1.37	61 ± 3	2.8	66.5 ± 3	5500	2999
3	150	70	14.2	5.5	1.53	69 ± 3	3	75 ± 3.5	7280	4612
3	185	95	15.1	5.5	1.53	72.5 ± 3.5	3.2	78.5 ± 4	8750	5800
3	240	120	18.1	5.5	1.37	75.0 ± 3.5	3.4	84.5 ± 4.5	10060	7161

### Ordering information

Part number	Description	Sheath Colour	EAN No. DNK	EL No.
851506	TSLP 24kV 1X 150 FR/25mm <sup>2</sup> P147	BLACK	7021528515060	-
851509	TSLP 24KV 1X 300 FR/35MM2 P147	BLACK	7021528515091	-
851510	TSLP 24kV 1X 400 FR/35mm <sup>2</sup> P147	BLACK	7021528515107	-
851512	TSLP 24KV 1X 630 FR/50MM2 P147	BLACK	7021528515121	-
851524	TSLP 24KV 3X 95 FR/50MM2 P147	BLACK	7021528515244	-
851526	TSLP 24KV 3X 150 FR/70MM2 P147	BLACK	7021528515268	-
851527	TSLP 24KV 3X 185 FR/95MM2 P147	BLACK	7021528515275	-
851528	TSLP 24KV 3X 240 FR/1205MM2 P147	BLACK	7021528515282	-

### Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type	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
1	150	25	KGFR	0.124	0.158	0.125	-	21400
1	300	35	KGFR	0.0601	0.0766	0.113	-	42900
1	400	35	KGFR	0.047	0.0599	0.109	-	57100
1	630	50	KGFR	0.0283	0.0361	0.100	-	90000
3	95	50	KGFR	0.193	0.246	0.102	-	13600
3	150	70	KGFR	0.124	0.158	0.101	-	21400
3	185	95	KGFR	0.0991	0.1264	0.097	-	26400
3	240	120	KGFR	0.0754	0.096	0.089	-	34300

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
20 x D	15x D	50 N /mm <sup>2</sup>	-10°C