



# 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	
Conductor		Stranded circular compacted copper, IEC 60228 class 2
Conductor screen semiconductive		Extruded semiconductive layer
Insulation	T	Crosslinked Polyethylene, IEC 60502-2 (XLPE)
Insulation screen semiconductive		Extruded semiconductive layer
Lay up		Three insulated conductors are laid up together with three polypropylene-yarns in the interstices between them to make the cable core round.
Bedding	S	The cable core is wrapped with a semiconductive PA tape and a semiconductive foamed 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.
Outer sheath	P	Polyvinyl chloride (PVC), IEC 60502-2(ST2)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL TSLP 24KV 3X 95 FR/50 mm2 P147
Outer sheath colour		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	14.2	5.5	1.11	34.5 ± 1.5	2	38.5 ± 1.5	2520	1513
1	300	35	20.5	5.5	1.11	42.5 ± 2	2.2	47 ± 2	4400	3140
1	400	35	23,2	5.5	1.11	45 ± 2	2.3	49.5 ± 2	5320	3919
1	630	50	29.8	5.5	1.11	52 ± 2.5	2.5	57 ± 2.5	7510	6222
3	95	50	11.3	5.5	1.11	61 ± 3	2.8	66.5 ± 3	5600	2950
3	150	70	14.2	5.5	1.53	69 ± 3	3	75 ± 3.5	7280	4612
3	185	95	15.9	5.5	1.53	72.5 ± 3.5	3.2	78.5 ± 4	9115	5755
3	240	120	18.1	5.5	1.53	75.0 ± 3.5	3.4	84.5 ± 4.5	11330	7525
3	300	150	20,5	5,5	1,53	82,5± 3,5	3,7	89,5 ± 4,5	13800	9625

## 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/120MM2 P147	BLACK	7021528515282	-
851529	TSLP 24KV 3x 300 FR/150 MM2 P147	BLACK		-

## 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	0.123	-	21500
1	300	35	KGFR	0.0601	0.0766	0.110	-	43050
1	400	35	KGFR	0.047	0.0599	0.107	-	57400
1	630	50	KGFR	0.0283	0,0361	0,100	-	90400
3	95	50	KGFR	0.193	0.246	0.107	-	13600
3	150	70	KGFR	0.124	0.158	0.101	-	21500
3	185	95	KGFR	0.0991	0.1264	0.097	-	26500
3	240	120	KGFR	0.0754	0.096	0.094	-	34400
3	300	150	KGFR	0,0601	0,0766	0,091	-	43050

## 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