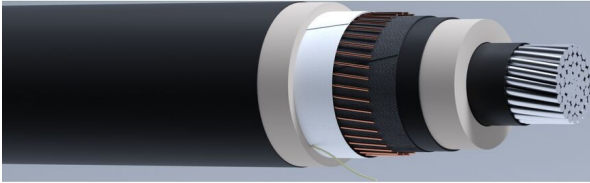


TSXF HD 24KV

Single core cable for outdoor usage



GENERAL INFO

TSXF HD 24KV

Single core, distribution cable for outdoor use in 3-phase formation. Installation in pipes and ground/water. Longitudinal water sealed. Can be ploughed down. The outer sheath of HDPE has a conductive layer that greatly extends the possibilities to do a sheath testing before, during and after installation. Ripcords for easier and safer stripping of the outer sheath.

The cable can be loaded according to NEK TS 583:2023.

Power Distribution

CABLE CONSTRUCTION

Conductor material	Aluminium
Conductor surface	Bare
Longitudinal water blocking conductors	Yes
Inner semi-conducting layer	Yes
Core insulation material	XLPE
Outer semi-conducting layer	Yes
Longitudinal water blocking cable	Yes
Rip cord	Yes
Screen construction	Wire screen
Screen	Yes
Screen material	Copper, bare
Concentric conductor	Copper
Material outer sheath	HDPE
Longitudinal water blocking screen	Yes
Cable shape	Round

MARKING TEXT ON OUTER SHEATH (EXAMPLE)

AXLJ-FCL TSXF HD 24kV 1x95 AFR/25 Prysmian "Datum och tid", metermärkning

STANDARDS APPLIED

SS 424 14 16

HD 620 Part 10, Section K and M

RWT: NEN HD 620 S2:2016 Part 10 Section J, Appendix F.4.

Construction standard 12-36 kV

Design standard

Radial water tightness test approval

APPLICATION PROPERTIES

Test voltage [kV]	50
Rated voltage U ₀ /U (U _m)	12/20 (24) kV
Halogen free	acc. IEC/EN 60754-1/2
Max. conductor temperature [°C]	90
Min. outer temperature, fixed installation [°C]	-60
Max. outer temperature, fixed installation [°C]	-60
UV resistant	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	65
Underground installation	Yes
Suitable as medium voltage cable	Yes
Bending radius (rule)	Fixed installation: 10 x D During handling: 15 x D During plowing: 8 x D

PRODUCT RANGE / ORDER DATA

Basic construction	Colour outer sheath	Conductor category	DOP number	Packaging type	Standard packaging quantity	EAN-code (GTIN)	SAP	EL no.
1x50/16 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728850	20522400	1080827
1x150/25mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384727389	20471623	1080828
1x240/35 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384727358	20471602	1080829
1x400/35 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384727365	20471559	1080830
1x630/35 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384727372	20471625	1080831
1x800/50 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728867	20522531	1080832
3x1x50/16 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728829	20521596	1080840
3x1x95/25 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728874	20522466	1080841
3x1x150/25 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728881	20522467	1080842
3x1x240/35 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728393	20508497	1080843
3x1x400/35 mm ² AFR	Black	Class 2 = stranded		Drum	500	7330384728409	20508515	1080844

ER = Copper solid round
 FR = Copper stranded round
 FV = Copper stranded sectorshaped
 AFR = Aluminium stranded round
 AFV = Aluminium stranded sectorshaped

DIMENSIONAL DATA

Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]
1x50/16 mm ² AFR	8	5.5	19.7	28	725
1x95/25mm ² AFR	11.3	5.5	22.8	32	1,120
1x150/25mm ² AFR	14.2	5.5	25.7	35	1,255
1x240/35 mm ² AFR	18	5.5	29.5	39	1,700
1x400/35 mm ² AFR	23.7	5.5	35.3	45	2,290
1x630/35 mm ² AFR	30.3	5.5	42.3	53	3,340
1x800/50 mm ² AFR	34.6	5.5	47.3	58	4,055
3x1x50/16 mm ² AFR	8	5.5	19.7	61	2,175
3x1x95/25 mm ² AFR	11.3	5.5	22.8	68	3,080
3x1x150/25 mm ² AFR	14.2	5.5	25.7	75	3,080
3x1x240/35 mm ² AFR	18	5.5	29.5	84	5,120
3x1x400/35 mm ² AFR	23.7	5.5	35.3	97	6,850

ELECTRICAL VALUES PART 1

Lederantall x areal mm ² / No. of cores x area mm ²	Leder resistans Ohm/km / Conductor resistance Ohm/km	Skjerm resistans * Ohm/km / Screen resistance * Ohm/km	Induktans i trekant/flat mH/km / Inductance i trefoil/flat mH/km	Reaktans i trekant/flat Ohm/km / Reactance in trefoil/flat Ohm/km	Kapasitans microF/km / Capacitance microF/km	Kapasitiv utladningsstrøm/fase A/km / Capacitive discharge current / phase A/km	Kapasitiv jordslutningsstrøm/fase A/km / Capacitive earth fault current A/km
1 x 50/16	0,641	1,15	0,44/0,73	0,14/0,23	0,17	0,6	1,9
1 x 70/16	0,443	1,15	0,41/0,70	0,13/0,22	0,19	0,7	2,1
1 x 95/25	0,320	0,727	0,39/0,67	0,21/0,21	0,21	0,8	2,4
1 x 120/25	0,253	0,727	0,38/0,65	0,12/0,20	0,23	0,9	2,6
1 x 150/25	0,206	0,727	0,36/0,63	0,11/0,20	0,25	0,9	2,8
1 x 185/35	0,164	0,524	0,35/0,61	0,11/0,19	0,27	1,0	3,1
1 x 240/35	0,125	0,524	0,34/0,59	0,11/0,19	0,30	1,1	3,4
1 x 300/35	0,100	0,524	0,33/0,57	0,10/0,18	0,33	1,2	3,7
1 x 400/35	0,0778	0,524	0,31/0,55	0,10/0,17	0,37	1,4	4,2
1 x 500/35	0,0605	0,524	0,30/0,53	0,09/0,17	0,40	1,5	4,5
1 x 630/50	0,0469	0,387	0,29/0,51	0,09/0,16	0,45	1,7	5,1
1 x 800/50	0,0367	0,387	0,29/0,50	0,09/0,16	0,45	1,7	5,1
1 x 1000/50	0,0291	0,387	0,29/0,48	0,09/0,15	0,47	1,8	5,3
1 x 1200/50	0,0247	0,387	0,29/0,48	0,09/0,15	0,51	1,9	5,8
3x1x50/16	0,641	1,15	0,44	0,14	0,17	0,6	1,9
3x1x95/25	0,320	0,727	0,39	0,21	0,20	0,9	2,7
3x1x150/25	0,206	0,727	0,37	0,11	0,24	1,1	3,2
3x1x240/35	0,125	0,524	0,34	0,11	0,29	1,2	3,4
3x1x300/35	0,100	0,524	0,32	0,10	0,32	1,2	3,5
3x1x400/35	0,778	0,524	0,31	0,10	0,36	1,3	4

* Cable distance in flat formation = 70mm

NB. Screen area/screen resistance is the sum of copper wires and aluminium foil

AVAILABLE CABLES TO BE FOUND UNDER PRODUCT RANGE/ ORDER DATA

ELECTRICAL VALUES PART 2

Lederantall x areal, mm ² / No. of cores x area, mm ²	Belastningsevne v/leder temp. 65°C i jord, A / Current rating at conductor temp. 65°C in earth, A	Belastningsevne v/leder temp. 65°C i luft, A / Current rating at conductor temp. 65°C in air, A	Belastningsevne v/leder temp. 90°C i jord, A / Current rating at conductor temp. 90°C in earth, A	Belastningsevne v/leder temp. 90°C i luft, A / Current rating at conductor temp. 90°C in air, A	Maks støtstrøm i 1 sek ved begynnelse temp. 65°C, kA / Max. surge current with start temp. 65°C, kA	Maks støtstrøm i 1 sek ved begynnelse temp. 90°C, kA / Max. surge current with start temp. 90°C, kA
1 x 50/16	155	160	185	195	5,2	4,7
1 x 70/16	200	190	235	235	7,2	6,6
1 x 95/25	235	230	280	280	9,9	8,9
1 x 120/25	265	265	320	325	12,4	11,3
1 x 150/25	300	300	360	370	15,6	14,2
1 x 185/35	330	345	405	425	19,2	17,5
1 x 240/35	385	400	465	490	25,0	22,7
1 x 300/35	435	460	525	565	31,2	28,3
1 x 400/35	510	555	615	680	41,6	37,8
1 x 500/35	570	635	695	775	52,0	47,2
1 x 630/50	635	720	780	880	65,6	59,5
1 x 800/50	700	810	885	1005	83,2	75,6
1 x 1000/50	770	910	990	1195	103,7	94,5
1 x 1200/50	820	975	1065	1230	124,0	113
3x1x50/16	155	160	185	195	5,2	4,7
3x1x95/25	235	230	280	280	9,9	8,9
3x1x150/25	300	300	360	370	15,6	14,2
3x1x240/35	385	400	465	490	25,0	22,7
3x1x300/35	435	460	525	565	31,2	28,3
3x1x400/35	510	555	615	680	41,6	37,8

* Trefoil formation with the screen earthed in both ends. Nominal values if nothing else is given.

Values are based on the following conditions

Max. conductor temperature 90°C

Earth temperature 15°C

Air temperature 25°C

Thermal resistivity in soil 1,0°K m/W

Ditch depth, center of cable 0,7m

Frequency 50Hz

AVAILABLE CABLES IS TO BE FOUND UNDER PRODUCT RANGE/ ORDER DATA

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