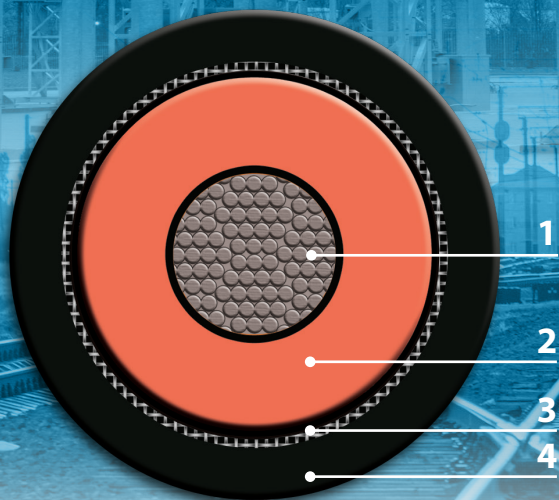


TRATOSSUPERFLEX®

HIGH VOLTAGE POWER CABLES - IEC 60840 (as applicable)

TRATOS HV SUPERFLEX®

High speed, high pull & torsion resistance

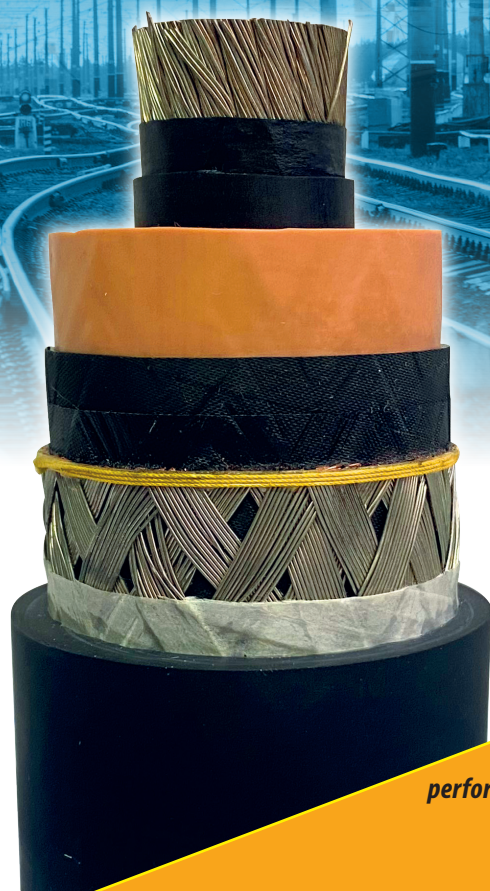


CONSTRUCTION

- 1) Conductor tinned or plain copper CL. 5 IEC 60228
- 2) Semiconducting layer + Insulation HEPR + Semiconducting layer
- 3) Tinned or plain copper braid wire
- 4) Outer sheath black colour TPU compound

TECHNICAL SPECIFICATIONS

• Rated Voltage	36/66 kV	64/110 kV	87/150 kV
• Max Voltage AC	72,5 kV	123 kV	170 kV
• AC Voltage Test	90 kV	160 kV	218 kV



*High
performances*

TRATOS HV SUPERFLEX - High speed, high pull & torsion resistance

Working Ambient Temperature:	TRATOS HV SUPERFLEX®	Type K
Fixed installation	-40 °C to +80 °C	-
In operation	-30 °C to +80 °C	-

Screen Cross Section:	
36/66 kV	35 mm ²
64/110 kV - 87/150 kV	70 mm ²
Other Sections	Upon Request

Nominal Cross Section	Nominal Conductor Diameter	Maximum Conductor DC Resistance at 20 °C	Nominal insulation thickness	Nominal outer sheath thickness	Maximum Overall Diameter	Nominal Cable Weight
mm ²	mm	Ω/Km	mm	mm	mm	Kg/m
36/66 kV						
1x240	20,7	0,817	9,0	3,5	55,0	5,88
1x400	27,4	0,0495	9,0	3,5	59,2	7,345
1x630	33,8	0,0292	9,0	3,5	65,6	9,999
1x800	36,8	0,0235	9,0	3,5	68,6	11,743
64/110 kV						
1x400	27,4	0,0495	17,0	4,5	85,8	11,324
1x630	33,8	0,0292	16,0	4,5	88,2	13,773
1x800	36,8	0,0235	16,0	5,0	91,8	15,741
87/150 kV						
1x400	27,4	0,0495	21,0	5,5	93,4	13,031
1x630	33,8	0,0292	20,0	5,5	99,2	15,837
1x800	36,8	0,0235	20,0	5,5	102,2	17,429

Nominal Cross Section	Min. bending radius	Max. A.C conductor resistance at 90 °C	Reactance	Capacitance	Current capacity Air 30 °C*		Screen Short circuit current Ti=80 °C Tsc=250 °C
mm ²	mm	Ω/Km	Ω/Km	μF/km	Trefoil A	Flat space A	kAx1"
36/66 kV							
1x240	550	0,106	0,120	0,350	560	280	5,1
1x400	600	0,0655	0,108	0,416	730	750	5,1
1x630	660	0,414	0,101	0,484	960	984	5,1
1x800	690	0,035	0,098	0,519	1.068	1.098	5,1
64/110 kV							
1x400	860	0,0650	0,13	0,264	710	735	10,3
1x630	890	0,0408	0,120	0,315	940	962	10,3
1x800	920	0,034	0,122	0,334	1.024	1.048	10,3
87/150 kV							
1x400	940	0,0650	0,151	0,221	700	725	10,3
1x630	1000	0,0408	0,127	0,268	925	950	10,3
1x800	1040	0,034	0,123	0,283	985	1.012	10,3

*Not directly radiated by the sun - Cross bonding

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