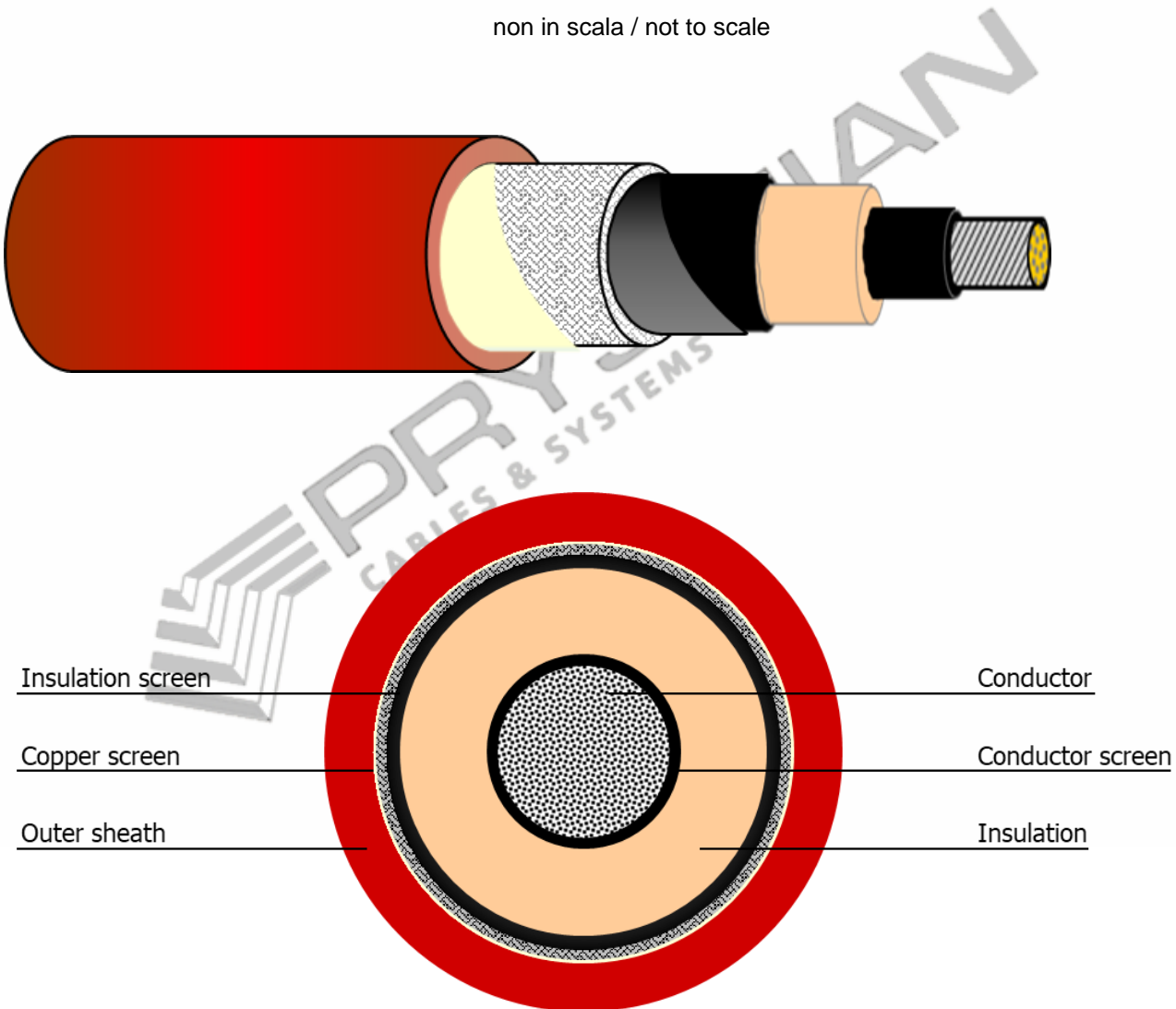


Rev. 1	TECHNICAL DATA TABLE	STSX – 1 – 3590
14/07/2023		Sheet 1 of 2

CAVO TIPO / CABLE TYPE
(N)TMCWOEU screened – (N)TMCGCWOEU – 6/10 kV 1x.../... mm² KON
secondo norme VDE 0250 parte 813 / in line with VDE 0250 part 813 std.
per quanto applicabile / where applicable

Caratteristiche costruttive / Constructional data

non in scala / not to scale



1	14/07/2023	Slightly modified marking >> (N)TMCGCWOEU	VB	AM
0	10/11/2020	1 st issue for customer comments	VB	AP
Rev.	Date	Issued for	Prepared	Approved

Rev. 1	TECHNICAL DATA TABLE	STSX – 1 – 3590
14/07/2023		Sheet 2 of 2

Rated Voltage $U_0/U(U_m)$ 6/10(12) kV

Cable	See drawing
Conductor	Tinned annealed copper flexible cl.5 IEC 60228 for mobile application
Conductor screen	Semi conductive layer
Insulation	HEPR 90 °C (3GI3)
Insulation screen	Semi conductive layer
Copper screen	Tinned Copper Wire Braid
Outer sheath	Red PCP rubber base compound. Oil and chemical resistant better than 5GM3
Overall Diameter	(see in table)
Weight (approx.)	(see in table)
Marking (Ink Jet) e.g.	PALAZZO – (N)TMCGCWOEU 6/10 kV 1x70/16 KON – year – metric
Electrical characteristics	Rated Voltage $U_0/U(U_m)$ 6/10(12) kV Test voltage A.C. (according to VDE 0250 part 813) 17 kV x 5 minutes Maximum D.C. resistance at 20 °C - phase (see in table) - screen 16 mm ² 1,24 Ohm/km - screen 25 mm ² 0,795 Ohm/km
Mechanical characteristics	Minimum bending radius Fixed installation 6 x OD Mobile installation 10 x OD Max permissible tensile load see table (up to 15 N/mm ²)
Thermal characteristics	Minimum operating temperature Fully flexible - 25 °C Fixed installation - 40 °C Maximum conductor temperature - in working/operating 90 °C - short-circuit 250 °C

Conductor / screen nom. size	Conductor D.C. Resistance at 20 °C	Conductor Nominal Diameter	Insulation approx. Diameter	Nominal outer diameter	Bending radius free moving	Approx. Net weight	Maximum permissible Tensile	Current ^(*) carrying capacity	Short circuit current 90-250 °C
mm ²	Ω / km	mm	mm	mm	mm	kg/km	N	A	kA - 1 sec
1x35/16 KON	0,565	8,0	17	24,5	260	980	525	220	5,0
1x50/16 KON	0,393	9,3	18	26,5	280	1210	750	275	7,2
1x70/16 KON	0,277	11,2	20	28,0	300	1460	1050	340	10,0
1x95/16 KON	0,210	13,0	22	30,0	320	1720	1425	409	13,6
1x120/16 KON	0,164	15,0	24	33,0	360	2200	1800	479	17,2
1x150/25 KON	0,132	16,9	25,7	35,5	370	2520	2250	549	21,5
1x185/25 KON	0,108	18,3	27	37,0	390	2860	2775	627	26,5
1x240/25 KON	0,0817	20,8	30	40,5	430	3570	3600	744	34,3
1x300/25 KON	0,0654	23,0	32	42,5	450	4180	4500	861	42,9

^(*) According to DIN VDE 0298-4

Come regola generale, i cavi unipolari di questo tipo sono usati per brevi collegamenti ad esempio tra armadi, tra sottostazioni di trasformazione mobili e linee. Durante l'installazione e la posa devo essere prese precauzioni per proteggerli da eccessivi sforzi meccanici. Se avvolti su tamburo, durante l'esercizio, devono essere completamente svolti.

As general rule, single-core cables are used in short lengths, e.g. for connection of switchgear cubicles and for connection of mobile transformer substations to the overhead line. When laying and during operation care should be taken to protect them against excessive mechanical stresses. If wrapped on reel they shall be completely unwrapped before use