

CCST different types 20(24)kV W

EN50397-1

Conductor, AAAC or ACSR

Extruded longitudinal water blocking layer

Extruded, inner semiconductive layer

Insulation of XLPE

Outer layer of UV-resistant XLPE

Conductor and all layers simultaneously manufactured in one operation



Crossection	50	99	159	241	329	62	99	[mm ²]
Lay up of conductor	7x3,08	7x4,25	19x3,26	19x4,02	37x3,37	(6+1)x3,37	(6+1)x4,25	[-]
Conductor diameter, bare conductor, nom	9,24	12,75	16,3	20,1	23,59	10,11	12,75	[mm]
Inner semi conductive layer, thickness, nom	0,3	0,3	0,3	0,3	0,3	0,3	0,3	[mm]
Inner XLPE insulation, thickness, nom	1,2	1,2	1,2	1,2	1,2	1,2	1,2	[mm]
Outer UV-resist. XLPE-insulation, thickness, nom	1,1	1,1	1,1	1,1	1,1	1,1	1,1	[mm]
Diameter over covering, min - max	13,9-15,3	17,4-18,8	20,9-22,4	24,7-26,2	28,1-29,7	14,8-16,2	17,4-18,8	[mm]
Weight, nom	247	417	635	920	1244	331	489	[kg/km]
Rated operating voltage, U ₀ /U(U _m)	20(24)	20(24)	20(24)	20(24)	20(24)	20(24)	20(24)	[kV]
DC-resistance at 20°C, maximum	0,600	0,318	0,1930	0,1290	0,095	0,5360	0,3370	[ohm/km]
Resistance temp. coefficient	0,004	0,004	0,004	0,004	0,004	0,004	0,004	[1/°C]
Maximum continuous operating temperature	70	70	70	70	70	70	70	[°C]
Max load (IEC61597), cond.temp 70 °C, air temp. 20°C, wind speed 0,5 m/s, Solar radiation 1000W/m ² , α=0,9, ε=0,15 approximate value	205	301	403	512	610	254	342	[A]
Max short circuit current, 1 sec. 50-150°C	3,9	7,5	12,3	18,6	25,4	4,4	7,0	[kA]
Tensile strength of conductor, calculated	14,3	25,3	43,6	61,5	90,8	18,6	29,2	[kN]
Color	Black/Green/Gray							[-]
Aluminium alloy	AL7	AL7	AL7	AL7	AL7	AL1/ST1A	AL1/ST1A	[-]

All illustrations and specifications of weights, size and dimensions are indicative only

Recommended minimum conductor temperature during installation-20°C

Minimum bending radius: 15xD (Installation)

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