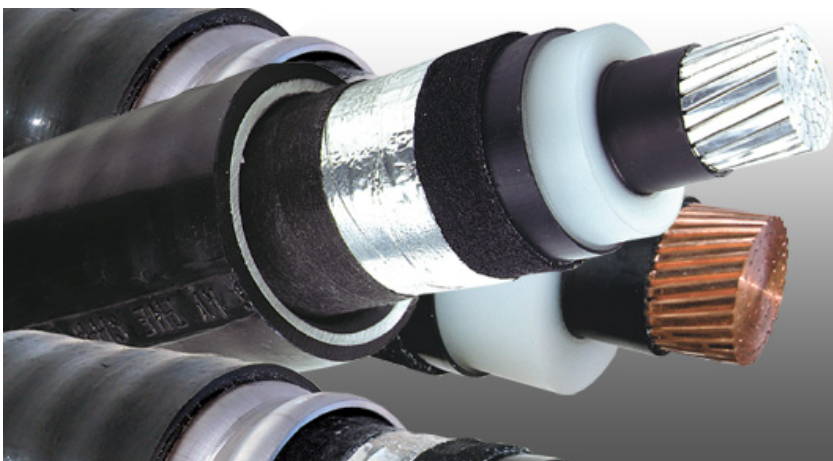


LARGE CONDUCTOR HV XLPE MILIKEN COPPER

Технические характеристики



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Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 25.4/44kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	61	69	75	82
Diameter over s/c core screen	mm	64	72	78	85
Diameter over CSA metallic sheath	mm	87	95	101	107
Final diameter of cable (D)	mm	100	108	114	120
Cable mass (approximate)	kg/m	17.2	21.6	25.8	31.3
Gross mass (500 m) (approximate)	kg	10100	12300	14400	17150
Minimum installation bending radius	m	3.0	3.2	3.4	3.6

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1014	1143	1108	1278	1171	1378	1224	1472
Current rating in air @ 90°C	Amps	1574	1969	1772	2275	1911	2501	2040	2736
AC Resistance @ 90°C	Ω/km	0.0214	0.0212	0.0172	0.0169	0.0147	0.0144	0.0129	0.0125
Reactance	Ω/km	0.1123	0.1704	0.1071	0.1652	0.1045	0.1625	0.1006	0.1587
Impedance	Ω/km	0.1143	0.1717	0.1085	0.1660	0.1055	0.1632	0.1014	0.1592
Sheath standing voltage	V/km	58.8	116.0	63.1	128.4	65.7	137.4	68.0	145.8

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.55	0.62	0.68	0.74
Zero Sequence Resistance	Ω/km	0.0679	0.0598	0.0544	0.0503
Zero Sequence Reactance	Ω/km	0.0543	0.0501	0.0483	0.0450
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	229.7	287.1	358.9
Earth fault rating (@ 150°C limit)	kA (1s)	51.7	56.1	60.1	63.6

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

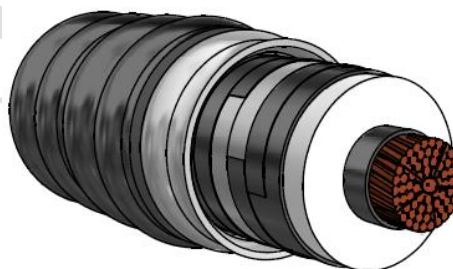
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 38.1/66kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	67	74	81	87
Diameter over s/c core screen	mm	70	77	84	90
Diameter over CSA metallic sheath	mm	93	100	107	113
Final diameter of cable (D)	mm	106	113	120	126
Cable mass (approximate)	kg/m	18.0	22.5	26.8	32.3
Gross mass (500 m) (approximate)	kg	10500	12750	14900	17650
Minimum installation bending radius	m	3.2	3.4	3.6	3.8

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1011	1139	1105	1274	1169	1375	1223	1469
Current rating in air @ 90°C	Amps	1563	1934	1761	2235	1901	2458	2032	2691
AC Resistance @ 90°C	Ω/km	0.0214	0.0212	0.0171	0.0169	0.0147	0.0144	0.0129	0.0125
Reactance	Ω/km	0.1157	0.1738	0.1103	0.1684	0.1076	0.1657	0.1036	0.1617
Impedance	Ω/km	0.1177	0.1751	0.1116	0.1692	0.1086	0.1663	0.1044	0.1621
Sheath standing voltage	V/km	57.8	114.7	62.2	127.2	64.9	136.2	67.3	144.8

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.4	0.5	0.5	0.55
Zero Sequence Resistance	Ω/km	0.0650	0.0574	0.0522	0.0483
Zero Sequence Reactance	Ω/km	0.0585	0.0540	0.0520	0.0486
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	229.7	287.1	358.9
Earth fault rating (@ 150°C limit)	kA (1s)	55.0	59.5	63.6	67.1

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

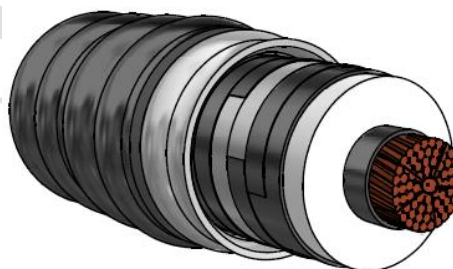
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 50.8/88kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43.4	50.7	56.1	62.8
Diameter over s/c conductor screen	mm	47.6	54.9	61.1	67.6
Diameter over XLPE insulation	mm	72.0	79.4	86.3	92.9
Diameter over s/c core screen	mm	75.0	82.3	89.2	95.8
Diameter over CSA metallic sheath	mm	98.2	105.8	112.9	120.2
Final diameter of cable (D)	mm	111	119	126	133
Cable mass (approximate)	kg/m	18.9	23.4	27.8	33.6
Gross mass (500 m) (approximate)	kg	10950	13200	15400	18300
Minimum installation bending radius	m	3.3	3.6	3.8	4.0

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1008	1136	1103	1271	1168	1372	1227	1470
Current rating in air @ 90°C	Amps	1553	1903	1751	2200	1891	2420	2025	2650
AC Resistance @ 90°C	Ω/km	0.0214	0.0212	0.0171	0.0169	0.0147	0.0144	0.0128	0.0125
Reactance	Ω/km	0.1190	0.1771	0.1134	0.1714	0.1106	0.1687	0.1071	0.1652
Impedance	Ω/km	0.1209	0.1783	0.1147	0.1723	0.1116	0.1693	0.1078	0.1656
Sheath standing voltage	V/km	57.0	113.6	61.4	126.1	64.2	135.2	67.2	144.5

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4	4	4
Capacitance	μF/km	0.34	0.38	0.40	0.44
Zero Sequence Resistance	Ω/km	0.0625	0.0552	0.0503	0.0461
Zero Sequence Reactance	Ω/km	0.0625	0.0577	0.0556	0.0523
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	229.7	287.1	358.9
Earth fault rating (@ 150°C limit)	kA (1s)	58.3	62.9	67.1	71.4

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

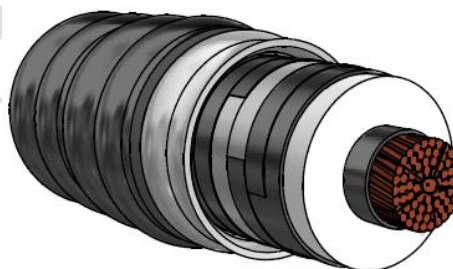
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



Description: Copper Milliken conductor, XLPE, W/B, CSA, LLDPE,
Voltage & Specification: HS 76/132kV, SANS IEC 60840/ NRS 077
Water blocking: Core is standard, conductor on request

PHYSICAL DIMENSIONS:

Conductor size (Milliken construction)	mm	1200	1600	2000	2500
Conductor diameter	mm	43	51	56	63
Diameter over s/c conductor screen	mm	48	55	61	68
Diameter over XLPE insulation	mm	82	90	96	103
Diameter over s/c core screen	mm	85	93	99	106
Diameter over CSA metallic sheath	mm	108	118	125	130
Final diameter of cable (D)	mm	122	131	138	143
Cable mass (approximate)	kg/m	20.6	25.5	30.0	34.8
Gross mass (500 m) (approximate)	kg	11600	14100	16700	19100
Minimum installation bending radius	m	3.6	3.9	4.1	4.3

RATINGS:		Trefoil		Flat (2D)		Trefoil		Flat (2D)	
		Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)	Trefoil	Flat (2D)
Current rating in ground @ 90°C	Amps	1005	1130	1103	1268	1171	1371	1226	1464
Current rating in air @ 90°C	Amps	1536	1855	1734	2142	1878	2362	2012	2588
AC Resistance @ 90°C	Ω/km	0.0213	0.0212	0.0171	0.0169	0.0146	0.0144	0.0128	0.0125
Reactance	Ω/km	0.1245	0.1826	0.1195	0.1775	0.1163	0.1744	0.1115	0.1696
Impedance	Ω/km	0.1263	0.1838	0.1207	0.1783	0.1173	0.1750	0.1123	0.1701
Sheath standing voltage	V/km	55.7	111.8	60.7	124.9	63.0	134.4	66.1	143

ELECTRICAL PARAMETERS:

DC Resistance @ 20°C	Ω/km	0.0151	0.0113	0.0090	0.0072
Max Electric stress at conductor screen	kV/mm	8	8	8	8
Max Electric stress at insulation screen	kV/mm	4	4.0	4.0	4.0
Capacitance	μF/km	0.26	0.28	0.31	0.33
Zero Sequence Resistance	Ω/km	0.0586	0.0512	0.0468	0.0436
Zero Sequence Reactance	Ω/km	0.0690	0.0645	0.0618	0.0577
Symmetrical fault rating (@ 250°C limit)	kA (1s)	172.3	230	287	359
Earth fault rating (@ 150°C limit)	kA (1s)	64.4	70.1	74.3	77.2

Ratings above are based on standard soil conditions for a single circuit in isolation as follows:

Soil thermal resistance = 1.2Km/W

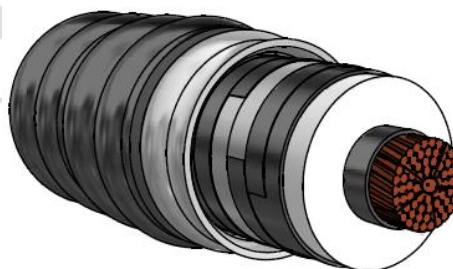
Soil temperature = 25°C

Depth of burial = 1.2m

Air temperature = 30°C

Earthing: Cross bonded or single point

bonded Tolerance on dimensions = +5%



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