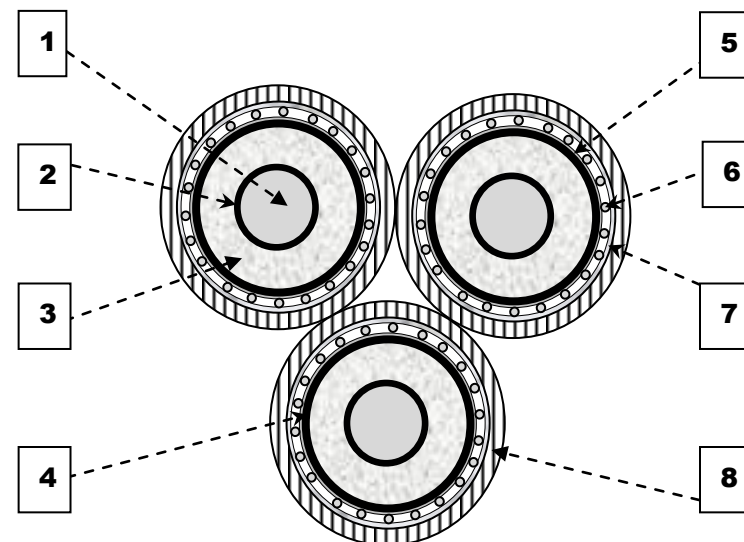


Cu/XLPE/AWS/PE 11kv Triplex Cables to IEC 60502-2

1	Copper conductor
2	Semiconducting screen
3	XLPE insulation
4	Semiconducting screen
5	Semiconducting/ water blocking tape
6	Aluminium wire screen
7	Water blocking tape
8	PE outer sheath



Designation of cable		3x1x185/70	3x1x300/70
Conductor material		Copper	Copper
Nominal cross-sectional area	mm ²	185	300
Approximate diameter over conductor	mm	15.8	20.3
Nominal area of copper wire screen	mm ²	N/A	N/A
Nominal area of aluminium wire screen	mm ²	115 (equivalent to 70 mm ² CWS)	115 (equivalent to 70 mm ² CWS)
Material type of sheath		PE	PE
Approximate overall diameter of cable or triplex group	mm	72.4	83
Approximate cable weight of cable or triplex group	kg/m	7.1	10.59
Minimum bending radius	mm	1100	1250
Maximum pulling tension	kg	2775	4500
Nominal internal diameter of duct	mm	150	170
Maximum DC screen resistance @ 20°C	Ω/km	0.253	0.253
Approximate Capacitance (C)	μF/km	0.43	0.52
Maximum DC resistance (R) @ 20°C	Ω/km	0.0991	0.0601
Maximum AC resistance (R') @ 90°C	Ω/km	0.128	0.0791
Inductance (L) @ 50Hz @ 90°C	mH/km	0.32754	0.30528
Reactance (X) @ 50Hz @ 90°C	Ω/km	0.103	0.096
Zero Sequence Resistance	Ω/km	0.085	0.060
Zero Sequence Reactance	Ω/km	0.0546	0.048
Positive Sequence Resistance	Ω/km	0.128	0.0791
Positive Sequence Reactance	Ω/km	0.103	0.096
Short Circuit Rating of Conductor (90 to 250°C)	kA/ 1sec	26.5	42.9
Short Circuit Rating of aluminium wire screen (80 to 250°C)	kA/1 sec	12.9	12.9