

# M-TEC

## Single Core

Aluminium, XLPE Insulated, Cu wire screened, FRPVC / LHFRPVC. (Type A) armoured.

SIZE CODE: XLA 1x(conductor size)FR / LH CWS AWA 33kV

## Application

For use in power circuits of 19/33kV systems. Installed in cable trays and ducts.

## Construction

Single core, Circular Aluminum Stranded Conductor, XLPE Insulated, copper wire screened, FR/LHPVC Bedded, AWA, FR/LHPVC sheathed.

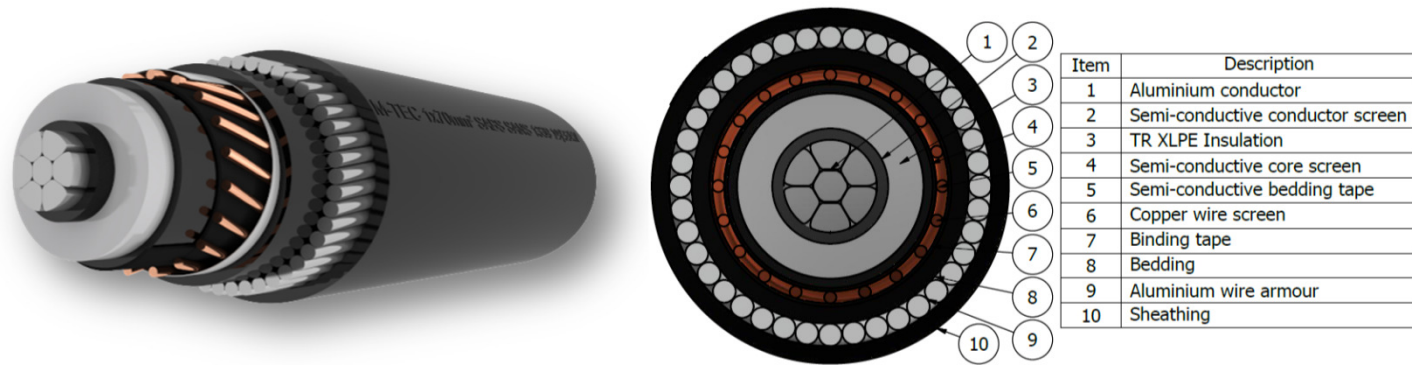
**Specification:** SANS 1339

**Voltage Rating:** 19/33kV

Physical properties and dimensions											Electrical Properties									
Conductor size	Conductor diameter	Insulation diameter	Insulation thickness	Cable diameter	Armour			Cable mass	Gross mass (500m)	Bending radius	Current rating			Resistance		Reactance	Impedance	Capacitance	Short circuit ratings	
					diameter	wire diameter	total area							$\Omega/\text{km max}$					Symmetrical	Earth fault
					mm <sup>2</sup> Nom.	mm Nom.	mm Nom.				mm <sup>2</sup> Min.	kg/m Nom.	kg Nom.	mm min.	air					
240	18.9	38.9	8.0	56.1	49.76	2.5	270.0	3.47	2 287	1122	490	370	355	0.125	0.162	0.131	0.208	0.241	21.0	26.1
400	23.9	43.9	8.0	62.6	56.93	2.5	299.0	6.04	3 569	1251	630	467	380	0.0778	0.101	0.123	0.159	0.285	33.1	40.3
500	27.2	47.2	8.0	66.3	60.23	2.5	319.2	6.81	3 953	1326	716	518	422	0.0605	0.081	0.119	0.144	0.314	42.5	43.0
630	31.2	51.2	8.0	70.3	61.03	2.5	339.5	7.55	4 227	1406	812	574	493	0.0469	0.065	0.113	0.130	0.350	55.0	45.8

### Cable Identification:

FRPVC (red stripe), LHFRPVC (blue stripe), LSZH / HFFR (white stripe), PE (no stripe).



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