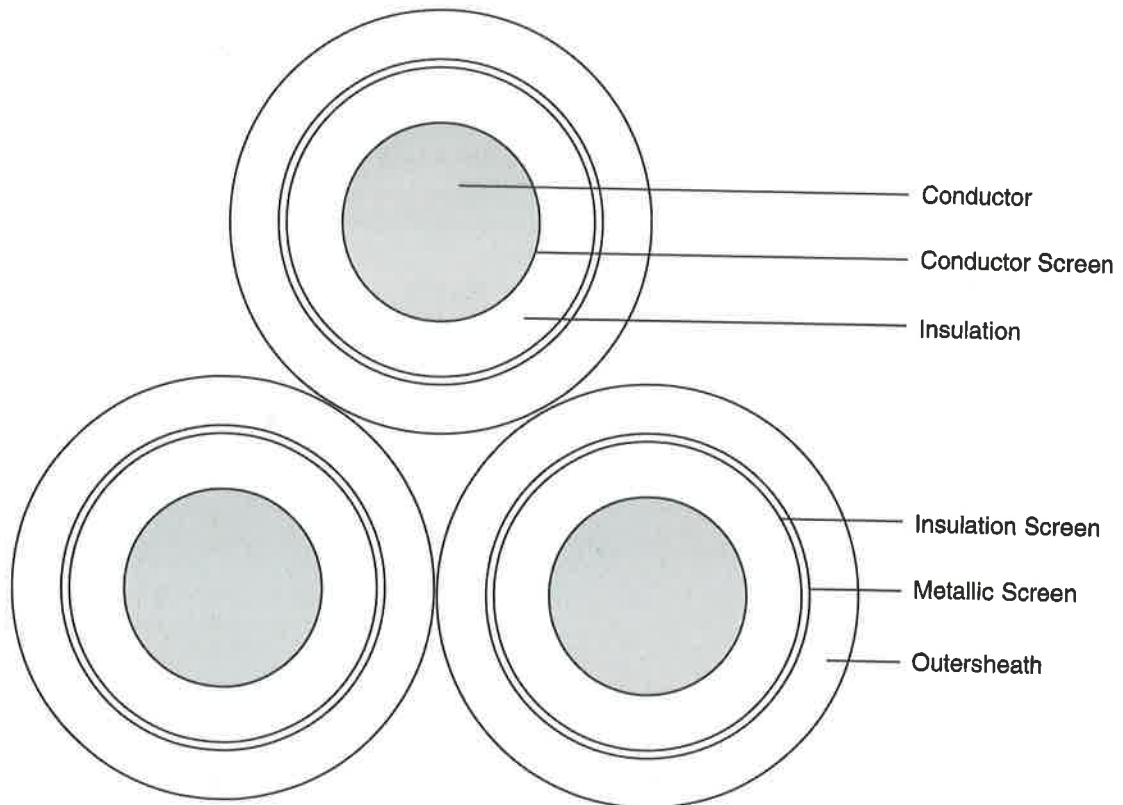


MEDIUM VOLTAGE XLPE INSULATED, MDPE OUTERSHEATHED, TRIPLEX CABLE



BASIC CONSTRUCTION

CONDUCTOR	- ALUMINIUM
MATERIAL SHAPE	- COMPACTED CIRCULAR STRANDED
INSULATION	- XLPE
METALLIC SCREEN	- COPPER TAPES
SHEATH MATERIAL	- POLYETHYLENE

**TNB
SPECIFICATION**

**REFERENCE
TA-11-1-DS**

MEDIUM VOLTAGE XLPE INSULATED POWER CABLES

TABLE 19 SINGLE-CORE 11KV DOUBLE-SHEATHED CABLES (ALUMINIUM CONDUCTOR)

Nominal Area of Conductors	Thickness of Insulation	Thickness of Outer Sheath	Overall Diameter	Approx. Weight	ELECTRICAL CHARACTERISTICS					
					Current Rating		Conductor Resistance		Reactance at 50Hz	Capacitance
					In Air at 40°C	In Ground at 25°C	dc at 20°C	50Hz at 90°C		
sq. mm	mm	mm	mm	kg/km	amp	amp	Ω/km	Ω/km	Ω/km	μF/km
500	3.4	2.4	47.8	2780	672	549	0.0606	0.0816	0.090	0.66

**TNB
SPECIFICATION**

**REFERENCE
TA-22-1-DS**

MEDIUM VOLTAGE XLPE INSULATED POWER CABLES

TABLE 20 SINGLE-CORE 22KV DOUBLE-SHEATHED CABLES (ALUMINIUM CONDUCTOR)

Nominal Area of Conductors	Thickness of Insulation	Thickness of Outer Sheath	Overall Diameter	Approx. Weight	ELECTRICAL CHARACTERISTICS					
					Current Rating		Conductor Resistance		Reactance at 50Hz	Capacitance
					In Air at 40°C	In Ground at 25°C	dc at 20°C	50Hz at 90°C		
sq. mm	mm	mm	mm	kg/km	amp	amp	Ω/km	Ω/km	Ω/km	μF/km
500	5.5	2.5	52.4	3145	672	549	0.0605	0.0816	0.090	0.66

**TNB
SPECIFICATION**

**REFERENCE
TA-11-3-DS**

MEDIUM VOLTAGE XLPE INSULATED POWER CABLES

TABLE 21 THREE-CORE 11KV DOUBLE-SHEATHED CABLES (ALUMINIUM CONDUCTOR)

Nominal Area of Conductors	Thickness of Insulation	Thickness of Outer Sheath	Overall Diameter	Approx. Weight	ELECTRICAL CHARACTERISTICS					
					Current Rating		Conductor Resistance		Reactance at 50Hz	Capacitance
					In Air at 40°C	In Ground at 25°C	dc at 20°C	50Hz at 90°C		
sq. mm	mm	mm	mm	kg/km	amp	amp	Ω/km	Ω/km	Ω/km	μF/km
95	3.4	2.7	59.2	3325	238	225	0.320	0.410	0.112	0.34
150	3.4	2.9	66.1	4095	310	288	0.206	0.265	0.106	0.40
240	3.4	3.2	79.0	5565	425	374	0.125	0.161	0.099	0.49

Minimum thickness of the innersheath shall be 2.0mm

**TNB
SPECIFICATION**

**REFERENCE
TA-11-3-T**

MEDIUM VOLTAGE XLPE INSULATED POWER CABLES

TABLE 22 TRIPLEX 11KV XLPE INSULATED CABLES (ALUMINIUM CONDUCTOR)

Nominal Area of Conductors	Thickness of Insulation	Thickness of Outer Sheath	Overall Diameter Over Outersheath	Overall Diameter of Cable	Approx. Weight	ELECTRICAL CHARACTERISTICS					
						Current Rating		Conductor Resistance		Reactance at 50Hz	Capacitance
						In Air at 40°C	In Ground at 25°C	dc at 20°C	50Hz at 90°C		
sq. mm	mm	mm	mm	mm	kg/km	amp	amp	Ω/km	Ω/km	Ω/km	μF/km
240	3.4	3.0	35.8	77.3	4680	500	435	0.125	0.1611	0.1023	0.5490