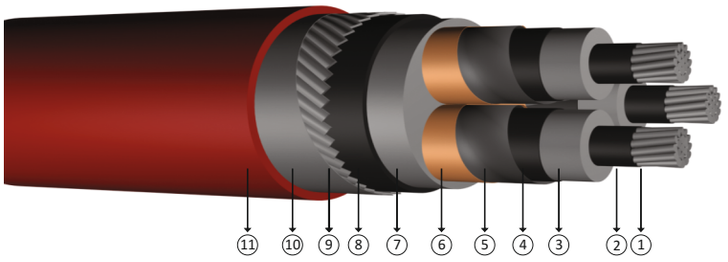
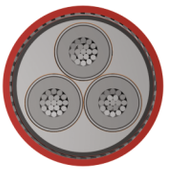
12/20 kV or 12.7/22 kV XLPE insulated flat steel wire armoured, three core cables with aluminium conductor





Code: YAXC8VZ3V-R, NA2XSEYFGY

R: Stranded Conductor Rigid

Standards: IEC 60502 - 2, VDE 0276 - 620, BS 6622

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 12/20 kV 12.7/22 kV
Min. bending radius	: 15 x D
D	: Cable outer diameter

Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts.

Construction

1. Stranded aluminium conductor
2. Inner semi conductive layer
3. XLPE insulation
4. Outer semi conductive layer
5. Semi conductive tape
6. Copper screen
7. Filler
8. Inner sheath
9. Galvanized flat steel wire
10. Galvanized steel tape
11. PVC outer jacket

DIMENSION AND WEIGHTS				ELECTRICAL PROPERTIES				
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	Operation Inductance (approx)	Operation Capacitance (approx)	Current Carrying Capacity (A)	
mm ²	mm	kg/km	m	ohm/km	mH/km	µF/km	In ground at 20 °C	In air at 30 °C
3x35/16	61,0	5500	1000	0,868	0,471	0,107	-	-
3x50/16	64,0	6000	500	0,641	0,448	0,116	168	171
3x70/16	68,0	6750	500	0,443	0,423	0,127	207	211
3x95/16	72,0	7600	500	0,320	0,401	0,140	247	255
3x120/16	75,0	8300	500	0,253	0,384	0,152	282	297
3x150/25	79,0	9200	500	0,206	0,372	0,161	316	334
3x185/25	81,0	10200	500	0,164	0,359	0,173	359	384
3x240/25	89,0	11500	250	0,125	0,341	0,193	420	454
3x300/25	93,0	13000	250	0,100	0,330	0,207	476	513

Note : Current carrying capacities are valid under the following conditions;
In ground : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7
In air : 30 °C, load factor 1.0
Number of system : 1