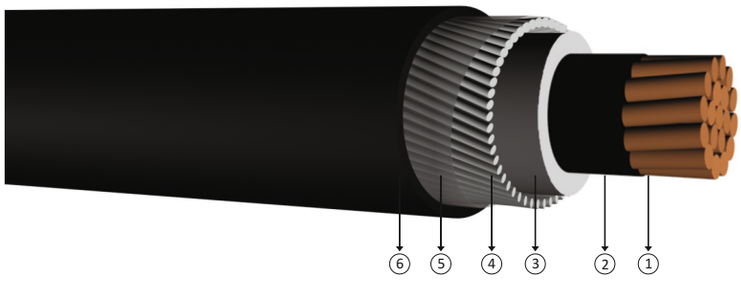
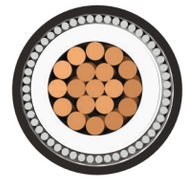
1.9/3.3 kV XLPE Insulated, round aluminium wire armoured, single core cables with copper conductor





Code: 61941B, YXZ1Y2Z1-R, CU/XLPE/LSZH/AWA/LSZH, N2XHR(A)H

R: Stranded Conductor	O: Yellow / green veinless J : Yellow / green core	**Standards:** IEC 60502 - 1, BS 6724

Technical Data

Max. operating temperature	: 90 °C
Max. short circuit temperature	: 250 °C (max. 5 sec.)
Rated voltage	: 1.9/3.3 kV
Min. bending radius	: 15 x D
D	: Cable outer diameter

Application

These cables have a low dielectric loss, used in indoors and outdoors, in cable ducts, underground, in power or switching stations, local energy distributions, industrial plants, where there is risk of mechanical damage.

Construction

1. Stranded copper conductor
2. XLPE insulation
3. HFFR inner sheath
4. Round aluminium wire
5. Polyester tape
6. HFFR 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	Current Carrying Capacity (A)	
mm ²	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
1x50	19,0	739	1000	0,387	251	258
1x70	20,5	955	1000	0,268	307	328
1x95	22,2	1221	1000	0,193	366	404
1x120	25,0	1557	1000	0,153	416	471
1x150	26,2	1830	1000	0,124	465	541
1x185	28,1	2203	1000	0,0991	526	626
1x240	30,6	2777	1000	0,0754	610	749
1x300	32,9	3392	1000	0,0601	689	864
1x400	37,0	4358	1000	0,0470	788	1018
1x500	40,7	5431	500	0,0366	889	1173
1x630	44,9	6818	500	0,0283	980	1315

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