

N2XSEYFGbY 3,6/6 kV, 6/10 kV, 18/30 kV, 19/33 kV

Copper core, XLPE insulated, armoured, 3-core



Cable structure

- Round bare copper core stranded according to IEC 60228
- Inner semi-conductive layer
- Core insulation XLPE
- Color code according to HD 308 S2
- Outer semi-conductive layer
- Semi-conductive tape
- Copper tape screen
- Filler
- PVC inner sheath
- Galvanized steel wire armour (SWA)
- Galvanized steel tape
- PVC outer sheath (red or black)

Technical data

- Power cable according to DIN VDE 0276 part 603, HD 620, IEC 60502, BS 6622
- **Temperature range** max. to +90 °C
- **Temperature during installation** from 0 °C to +70 °C
- **Short circuit temperature** +250 °C (up to 5 seconds)
- **Nominal voltage** U_0/U 3,6/6 kV, 6/10 kV, 6,35/11 kV (dIe BS), 18/30 kV, 19/33 kV (dIe BS)
- **Operating voltages** 3,6/6 kV = max. 7,2 kV
6/10 kV = max. 12 kV
18/30 kV = max. 36 kV
- **Test voltage a.c.** 3,6/6 kV = 11 kV up to 5 min.
6/10 kV = 21 kV up to 5 min.
18/30 kV = 63 kV up to 5 min.
- **Minimum bending radius** approx. 15× cable diameter

Application

These power armoured cables are designed for open air installation, for direct burial underground, in water, in cable ducts, power stations, where mechanical damages to the cable may occur.

Note

Voltage **12/20 kV** on request.
Halogenfree version on request.

Part No.	Number of cores × core cross section [mm ²]	Approx. outer Ø [mm]	DC Conductor Resistance at 20 °C (Ω/km)	Operation Inductance (mH/km)	Operation Capacitance (uF/km)	Approx. cable weight [kg/km]	Current carrying capacity [A]	
							in earth (20 °C)	in air (30 °C)
N2XSEYFGbY 3,6/6 kV								
09343391	3×25/16	44,5	0,7270	0,370	0,208	3400	149	141
09343401	3×35/16	47,0	0,5240	0,352	0,229	3950	176	171
09343411	3×50/16	50,5	0,3870	0,336	0,255	4700	208	196
09343421	3×70/16	54,5	0,2680	0,318	0,288	5650	255	249
09343431	3×95/16	58,5	0,1930	0,303	0,324	6750	307	307
09343441	3×120/16	63,0	0,1530	0,292	0,359	8000	353	353
09343451	3×150/25	66,0	0,1240	0,284	0,388	9200	396	406
09343461	3×185/25	70,0	0,0991	0,276	0,424	10650	447	464
09343471	3×240/25	77,5	0,0754	0,267	0,469	13100	523	548
09343481	3×300/25	84,0	0,0601	0,263	0,486	15700	581	632
09343491	3×400/35	93,0	0,0470	0,257	0,521	19750	653	726
N2XSEYFGbY 6/10 kV, acc. to BS 6,35/11 kV								
09343392	3×25/16	49,5	0,7270	0,392	0,173	3950	148	143
09343402	3×35/16	52,0	0,5240	0,374	0,189	4450	178	173
09343412	3×50/16	54,5	0,3870	0,355	0,209	5200	210	206
09343422	3×70/16	58,5	0,2680	0,336	0,236	6200	256	257
09343432	3×95/16	63,0	0,1930	0,320	0,263	7400	307	313
09343442	3×120/16	67,0	0,1530	0,308	0,291	8600	349	360
09343452	3×150/25	70,5	0,1240	0,299	0,314	9850	392	410
09343462	3×185/25	74,5	0,0991	0,290	0,341	11350	443	469
09343472	3×240/25	81,5	0,0754	0,278	0,387	13850	513	553
09343482	3×300/25	87,0	0,0601	0,270	0,422	16250	576	635
09343492	3×400/35	94,5	0,0470	0,261	0,475	20150	650	731
N2XSEYFGbY 18/30 kV, acc. to BS 19/33 kV								
09343404	3×35/16	74,5	0,5240	0,457	0,114	7850	-	-
09343414	3×50/16	78,0	0,3870	0,434	0,124	8750	214	217
09343424	3×70/16	81,5	0,2680	0,410	0,137	9950	261	269
09343434	3×95/16	85,5	0,1930	0,389	0,150	11250	313	326
09343444	3×120/16	89,5	0,1530	0,372	0,163	12600	356	377
09343454	3×150/25	93,0	0,1240	0,360	0,174	14000	400	426
09343464	3×185/25	97,0	0,0991	0,348	0,188	15700	441	488
09343474	3×240/25	104,0	0,0754	0,331	0,209	18500	510	576
09343484	3×300/25	109,5	0,0601	0,321	0,226	21150	604	651