

Medium voltage cable N2XSEY acc. to VDE 0276-620



Application: For installation in ground, in water, outdoors, indoors and in cable ducts for power stations, industry, and distribution networks. The good installation properties of this cable make installation easy, even on difficult routes. Acc. to VDE 0276-603 cables must be protected against direct sun irradiation.

Construction

conductor material: bare copper

conductor construction: stranded, class 2

insulation: XLPE DIX8

sheathing material: PVC DMV6

colour of outer sheath: red

partial discharge: 2 pC

nominal voltage U₀: 6 kV

nominal voltage U: 10 kV

maximum permitted operating voltage in 3-phase systems: 12 kV

test voltage: 21 kV



stranded, class 2



maximum temperature at conductor: 90°C



max. operating temperature, fixed: +70°C



temperature, moved/during installation: -5 - +70°C



min. installation temperature: -5°C



bending radius, fixed installation: 15 x DA



nominal voltage U₀: 6 kV



nominal voltage U: 10 kV



flame retardant:
VDE 0482-332-1-2/IEC 60332-1



installation in free air only with UV-protection (cable not UV-resistant)



cable for direct burial



cable for use in water

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VDE



p/n	part name		D_i [mm]	R_i [Ω /km]	W_i [mm]	I_{bl} [A]	I_{be} [A]	I_k [kA]	R_{bv} [mm]	W_m [mm]	D_A [mm]	F_{zv} [N]	Cu [kg/km]	G [kg]	
N2XSEY 6/10 kV															
011310	N2XSEY 03X35/16 6/10 kV	RM	7,5	0,524	3,4	178	187	5	588	2,5	49	1750	1209	3300	
011311	N2XSEY 03X50/16 6/10 kV	RM	8,6	0,387	3,4	213	213	7,15	624	2,5	52	2500	1671	3900	
011312	N2XSEY 03X70/16 6/10 kV	RM	10,2	0,268	3,4	265	261	10	660	2,5	55	3500	2247	4700	
011313	N2XSEY 03X95/16 6/10 kV	RM	12	0,193	3,4	322	312	13,6	720	2,5	60	14250	2994	5850	
011314	N2XSEY 03X120/16 6/10 kV	RM	13,5	0,153	3,4	370	355	17,2	768	2,5	64	6000	3714	6800	
011315	N2XSEY 03X150/25 6/10 kV	RM	15	0,124	3,4	420	399	21,4	804	2,5	67	22500	4638	7950	
011316	N2XSEY 03X185/25 6/10 kV	RM	16,8	0,0991	3,4	481	451	26,5	852	2,5	71	27750	5646	9300	
011497	N2XSEY 03X240/25 6/10 kV	RM	19,2	0,0754	3,4	566	523	34,3	924	2,5	77	36000	7272	11550	
013316	N2XSEY 03X300/25 6/10 kV	RM	21,6	0,0601	3,4	648	590	42,9	960	2,5	80	45000	9160	12200	

D_i : diameter of conductor

R_i : conductor resistance

W_i : thickness of insulation

I_{bl} : ampacity (in air)

I_{be} : ampacity (in ground)

I_k : short circuit current (1 s)

R_{bv} : bending radius, fixed installation

W_m : thickness of outer sheath

D_A : outer diameter

F_{zv} : tensile strength (during installation)

Cu: copper

G: weight