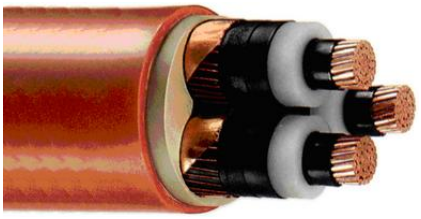
Medium voltage cable N2XSEY acc. to VDE 0276-620



conductor material:	bare copper
conductor construction:	stranded, class 2
insulation:	XLPE DIX8
sheathing material:	PVC DMV6
colour of outer sheath:	red
flame retardant:	VDE 0482-332-1-2/IEC 60332-1-2
maximum temperature at conductor:	90 °C
max. operating temperature, fixed:	70 °C
temperature, moved/during installation:	-5 - +70 °C
bending radius, fixed installation:	15 x DA
partial discharge:	2 pC
nominal voltage Uo:	6 kV
nominal voltage U:	10 kV
maximum permitted operating voltage in 3-phase systems:	12 kV
test voltage:	21 kV

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.

The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics N2XSEY 6/10 kV

p/n	part name		D_l [mm]	R_l [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/km]
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

p/n	part name		D_l [mm]	R_l [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/km]
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

Dl	diameter of conductor
Rl	conductor resistance
Wi	thickness of insulation
Ibl	ampacity (in air) (30°C)
Ibe	ampacity (in ground) (20°C)
Ik	short circuit current (1 s)
Rbv	bending radius, fixed installation
Wm	thickness of outer sheath
DA	outer diameter
Fzv	tensile strength (during installation)
Cu	copper weight (ger)
G	weight