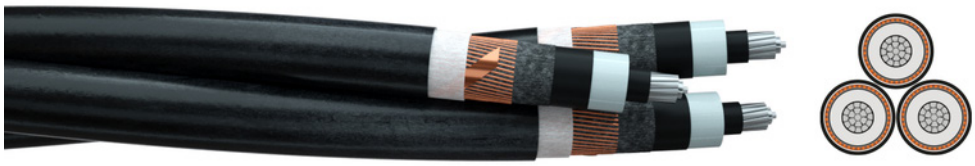
Medium voltage cable
NA2XS(F)2Y 3-times stranded



Application: For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

Construction and technical data:

Standard:	VDE 0276-620
Conductor material:	aluminium
Conductor construction:	Class 2 = stranded
Insulation:	XLPE DIX8
Electrical field control:	inner and outer semiconducting layer (triple extrusion)
Screen:	Copper wires + counter helix
Sheathing material:	polyethylene DMP2
Longitudinally watertight:	yes
Colour of outer sheath:	black
Flame-retardant:	none
UV-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	70 °C
Permitted outer cable temperature, moved, °C:	-20 - +70 °C
Bending radius, fixed installation:	15 x Ø
Meter mark:	yes
Partial discharge:	2 pC

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.

NA2XS(F)2Y 6/10 kV stranded

Nominal voltage Uo: 6 kV

Nominal voltage U: 10 kV

Maximum permitted operating voltage in three-phase systems: 12 kV

Test voltage: 21 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
012689	3X1X70/16	RMv	10.2	0.443	3.4	228	208	6.58	2.1	864	57.6	6300	618	554	2850
013923	3X1X95/16	RMv	12	0.32	3.4	278	248	8.93	2.1	1260	84	8550	828	546	3465
012050	3X1X150/25	RMv	15	0.206	3.4	364	315	14.1	2.1	1026	68.4	13500	1331	848	3284
012222	3X1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	1107	73.8	16650	1630	848	3807
011787	3X1X240/25	RMv	19.2	0.125	3.4	494	413	22.6	2.1	1125	75	21600	2113	848	4370
015289	3X1X300/25	RMv	21.6	0.1	3.4	568	466	28.2	2.1	1200	80	27000	2610	848	5000
014773	3X1X400/35	RMv	24.6	0.0778	3.4	660	529	37.6	2.1	1290	86	36000	3480	1187	6240
015547	3X1X500/35	RMv	27.6	0.0605	3.4	767	602	47	2.1	1430	95.3	45000	4350	1182	7340

NA2XS(F)2Y 12/20 kV stranded

Nominal voltage Uo: 12 kV

Nominal voltage U: 20 kV

Maximum permitted operating voltage in three-phase systems: 24 kV

Test voltage: 42 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
013944	3X1X50/25	RMv	8.6	0.641	5.5	185	172	4.7	2.1	1305	87	4500	435	546	3307
012683	3X1X95/16	RMv	12	0.32	5.5	280	251	8.93	2.1	907.5	60.5	8550	838	553	3900
012809	3X1X120/16	RMv	13.5	0.253	5.5	323	285	11.3	2.1	1245	83	10800	1044	546	4500
011977	3X1X150/25	RMv	15	0.206	5.5	366	319	14.1	2.1	1125	75	13500	1305	848	3875
015751	3X1X150/50	RMv	15	0.206	5.5	366	319	14.1	2.1	1134	75.6	13500	1305	1696	4620
012684	3X1X185/25	RMv	16.8	0.164	5.5	420	361	17.4	2.1	1185	79	16650	1610	859	4300
012685	3X1X240/25	RMv	19.2	0.125	5.5	496	417	22.6	2.1	1237.5	82.5	21600	2088	848	6150
013270	3X1X240/35	RMv	19.2	0.125	5.5	496	417	22.6	2.1	1237.5	82.5	21600	2113	1196	6300
012686	3X1X300/25	RMv	21.6	0.1	5.5	569	471	28.2	2.1	1338	89.2	27000	2610	848	6900
012687	3X1X400/35	RMv	24.6	0.0778	5.5	660	535	37.6	2.1	1417.5	94.5	36000	3522	1196	8400
012688	3X1X500/35	RMv	27.6	0.0605	5.5	766	609	47	2.1	1515	101	45000	4402	1196	8400

NA2XS(F)2Y 18/30 kV stranded

Nominal voltage Uo: 18 kV

Nominal voltage U: 30 kV

Maximum permitted operating voltage in three-phase systems: 36 kV

Test voltage: 63 kV

part no.	part name		Dl [mm]	Rl [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
014211	3X1X120/16	RMv	13.5	0.253	8	325	289	11.3	2.1	1755	117	10800	1044	546	5513
014212	3X1X150/25	RMv	15	0.206	8	367	322	14.1	2.1	1800	120	13500	1305	849	6143
013243	3X1X185/25	RMv	16.8	0.164	8	421	364	17.4	2.1	1920	128	16650	1611	849	6650
014213	3X1X240/25	RMv	19.2	0.125	8	496	422	226	2.1	1980	132	21600	2088	849	7560
013962	3X1X300/25	RMv	21.6	0.1	8	568	476	28.6	2.1	2115	141	27000	2610	849	8505
013254	3X1X400/35	RMv	24.6	0.0778	8	659	541	37.6	2.1	1575	105	36000	3522	1196	8600

Dl	diameter conductor
Rl	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000