

NA2XY 0,6/1KV

Low voltage cables with PVC sheath



Power cables for fixed outdoor or indoor electrical installations laying in ground, in open air, concrete or in cable ducts, where mechanical protection is not required during installation and operation and where the PVC outer sheath is not attacked by corrosive agents. Suitable for AC and DC network, industrial installations, switching equipment, local pipelines or wind turbines.

Conductor shape round or sector, class 1 = solid or class 2 = stranded; black outer sheath

STANDARDS AND CERTIFICATIONS

RoHS



EN 60228

HD 603

IEC 60502-1

EN/IEC 60332-1-2

Conductors of insulated cables

Distribution cables of rated voltage 0,6/1 kV

Cables for rated voltages of 1 kV ($U_m = 1,2$ kV) and 3 kV ($U_m = 3,6$ kV)

Test for vertical flame propagation for a single insulated wire or cable

CABLE DESIGN

Conductor material	Aluminium
Core identification (acc. HD 308 S2)	Yes
Core insulation material	XLPE
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

ELECTRICAL & THERMAL PARAMETERS

Nominal voltage U_0 [V]	600
Nominal voltage U [V]	1,000
Test voltage [kV]	4
Rated voltage U_0/U (U_m)	0,6/1 (1,2) kV
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250
Laying temperature (min) [°C]	-5
Laying temperature (max) [°C]	50

Technical data, dimensions and weights are subject to change. All sizes and values without tolerances are reference values. Specifications are for products supplied by Prysmian; any modification or alteration of products may give different results. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian. The information is correct to the best of our knowledge at the time of publication. Prysmian reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by Prysmian. © All rights reserved by Prysmian 2024 - www.prysmian.com

CHEMICAL PROPERTIES

Flame retardant	In accordance with EN/IEC 60332-1-2
Resistant to UV	Yes
UV resistant	Yes
Silicon free	Yes
Lead free	Yes

CHARACTERISTICS

Outdoor installation	Yes
Underground installation	Yes
Suitable as installation cable	Yes
Bending radius (rule)	During installing: 15 x D single-core cables; 12 x D multi-cores cables

SUSTAINABILITY COMMITMENT

Our commitment to a low-carbon future remains unwavering as we strive to create sustainable solutions while upholding quality standards. We prioritize sustainability and environmental protection in our daily operations, collaborating with local communities to ensure workplace safety and safeguard the areas we operate in.

Sustainability and environmental responsibility is evident also in our **packaging** solutions across the CEE region. We use fully recyclable drum cover foils to minimize environmental impact. Our packaging for rings is made from 30% recycled materials, supporting a circular economy. Additionally, our boxes are made from recyclable, environment-friendly cardboard, promoting eco-conscious choices. By choosing Prysmian, you are not only selecting high-quality products but also contributing to a greener future.

Check for more details about our sustainability commitment here: [Sustainability report and responsibility](#).



CABLE PROPERTIES

Basic construction	Type	SAP code	Variant	Nominal thickness insulation [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Bending radius, during laying (min) [mm]	Conductor resistance at 20° C [Ohm/km]	Short circuit current conductor (1sec) [kA]
1X150RM	-O	33600102021	n/a	1.4	21.1	632	317	0.206	14.5
1X185RM	-O	20455789	n/a	1.6	22.5	771	338	0.164	17.9
1X240RM	-O	33600102022	n/a	1.7	25.8	954	387	0.125	23.1
1x300RM	-O	33600102024	n/a	1.8	28.2	1,171	422	0.1	28.8
1x400RM	-O	33600102025	n/a	2	31	1,478	465	0.0778	38.3
1x630RM	-O	20381862	n/a	2.4	38.8	2,370	582	0.0469	60.2
2x16RE	-J	20174219	Extruded	0.7	17.9	455	215	1.91	1.6
2x25RE	-J	33590101017	Extruded	0.9	20.5	637	246	1.2	2.5
2x25RM	-J	20116206	Extruded	0.9	22	686	264	1.2	2.5
3x16RE	-J	20110327	Extruded	0.7	19	528	230	1.91	1.6
3x25RE	-O	20120978	Extruded	0.9	22.1	693	265	1.2	2.5
3x25RM	-J	20094240	Extruded	0.9	23.3	747	279	1.2	2.5
3x25RM/16RE	-J	20095932	Extruded	0.9	24.2	799	291	1.2	2.5
3x35SM/16RM	-J	20227243	Extruded	0.9	25.6	879	308	0.868	3.5
3x50SM/25RM	-J	20101429	Extruded	1	28.9	1,108	347	0.641	4.9
3X120SM/70RM	-J	33590102011	Extruded	1.2	40.9	2,343	491	0.253	11.6
3x150SM/70RM	-J	20100894	Extruded	1.4	45.4	2,828	545	0.206	14.5
4X16RE	-J	33600503001	Extruded	0.7	21.4	557	257	1.91	1.6
4x25RE	-J	20167431	Tape	0.9	23.5	812	282	1.2	2.5
4x35RM+1,5	-J	20227862	Extruded	0.9	27.7	1,074	333	0.868	3.5
4x70SM	-J	20288121	Extruded	1.1	31.8	1,448	382	0.443	6.8
4x70SM	-O	20333427	Extruded	1.1	31.8	1,448	382	0.443	6.8
4x70SM+1,5	-J	20227863	Extruded	1.1	31.8	1,455	382	0.443	6.8
4X95SE	-J	33580101006	Extruded	1.1	35.5	1,825	426	0.32	9.2
5x16RE	-J	20101198	Tape	0.7	22.3	704	268	1.91	1.6
5x25RE	-J	20438347	Tape	0.9	23.7	677	285	1.2	2.5
5x25RM	-J	20097727	Extruded	0.9	27.6	1,009	331	1.2	2.5

Technical data, dimensions and weights are subject to change. All sizes and values without tolerances are reference values. Specifications are for products supplied by Prysmian; any modification or alteration of products may give different results. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian. The information is correct to the best of our knowledge at the time of publication. Prysmian reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorized by Prysmian. © All rights reserved by Prysmian 2024 - www.prysmian.com

CURRENT CARRYING CAPACITY

Cross-section (mm ²)	Direct in ground single-core DC (A)	Direct in ground multi-cores (A)	Direct in ground single-core trefoil (A)	Air single-core DC (A)	Air multi-cores (A)	Air single-core trefoil (A)
16	-	-	-	-	-	-
25	177	112	114	136	102	106
35	212	135	136	166	126	130
50	252	158	162	205	149	161
70	310	196	199	260	191	204
95	372	234	238	321	234	252
120	425	268	272	376	273	295
150	476	300	305	431	311	339
185	541	342	347	501	360	395
240	631	398	404	600	427	472
300	716	457	457	696	507	547
400	825	529	525	821	600	643
500	952	609	601	971	695	754
630	1102	-	687	1151	-	882
800	1267	-	776	1355	-	1019
1000	1448	-	865	1580	-	1157

Ground temperature: 20°C; Air temperature: 30°C
 Depth of laying: 0,7 m; Soil resistivity, moist: 1 K.m/W