

C2XNMR-WBY 0,6/1KV

Low voltage signalling power distribution cables



Enhanced unarmoured cables with nonmetallic reinforcement (NMR) and water blocking (WB) for signalling power distribution systems in accordance with NR/L2/SIGELP/27408. Product range consists of copper stranded conductors. Low voltage signalling power distribution cables according to NR/L2/SIGELP/27408 – Product Acceptance Certificate No. PA05/05441

GENERAL INFORMATION

Brand Prysmian
Application Rail Infra

STANDARDS AND CERTIFICATIONS

EN 60228 Conductors of insulated cables

BS 7889 Electric cables – Thermosetting insulated, non-armored cables with a

voltage of 600/1000 V, for fixed installations

NR/L2/SIGELP/27408 Product Specification for Signaling Power Distribution Cables

CABLE DESIGN

Conductor material

Core identification (acc. HD 308 S2)

Core insulation material

Longitudinal water blocking cable

Longitudinal water blocking construction

Cable shape

Cable marking example

Copper

Yes

XLPE

Yes

Water swellable tape(s)

Round

PRYSMIAN S ELECTRIC CABLE 600/1000 V [N]x[S] [CU] PVC [year] H NMR WB NR/L2/SIGELP/27408 PROPERTY OF NETWORK RAIL

PAD No XXX/XXXXXX [M]m

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ELECTRICAL & THERMAL PARAMETERS

 Nominal voltage U0 [V]
 600

 Nominal voltage U [V]
 1,000

 Test voltage [kV]
 3.5

Rated voltage U0/U (Um) 0.6/1 (1.2) kV

Max. conductor temperature [°C]90Max. conductor temperature at short circuit [°C]250Laying temperature (min) [°C]-5Laying temperature (max) [°C]50

CHEMICAL PROPERTIES

Flame retardant In accordance with BS EN 60332-1-2

UV resistant Yes
Lead free Yes

CHARACTERISTICS

Outdoor installationYesUnderground installationYesSuitable as installation cableYes

Bending radius (rule) During installing: 6 x D RM cables; 8 x D SM cables

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CABLE PROPERTIES

Basic construction	SAP code	External article 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]
2x10RM	18050000050	PADS No 006/186019	Tape	2	25.2	952	151	1.83	1.5
2x16RM	18050000012	PADS No 006/186020	Tape	2	27.1	1,162	163	1.15	2.4
2x25SM	18050000013	PADS No 006/186021	Tape	2	27.5	961	220	0.727	3.7
2X35SM	18050000008	PADS No 006/186022	Tape	2	29	1,184	232	0.524	5.2
2x50SM	18050000002	PADS No 006/186023	Tape	2	30.8	1,471	246	0.387	7.4
2X70SM	18050000003	PADS No 006/186024	Tape	2	33.1	1,932	265	0.268	10.3
2x95SM	20337773	PADS No 006/186025	Tape	2	34.4	2,471	275	0.193	13.9
2x120SM	18050000009	PADS No 006/186026	Tape	2	37.6	3,024	301	0.153	17.5
2X150SM	18050000014	PADS No 006/186103	Tape	2	39.1	3,366	313	0.124	21.8
2x185SM	18050000015	PADS No 006/186104	Tape	2	41.3	4,329	330	0.0991	26.9
3x25RM	18050000042	PADS No 006/186113	Tape	2	31.4	1,732	188	0.727	3.7
3X35SM	18050000018	PADS No 006/186114	Tape	2	31.3	1,585	250	0.524	5.2
3x50SM	18050000019	PADS No 006/186115	Tape	2	33.4	1,984	267	0.387	7.4
3X70SM	18050000020	PADS No 006/186116	Tape	2	37.2	2,699	298	0.268	10.3
3x95SM	18050000021	PADS No 006/186117	Tape	2	38.3	3,456	306	0.193	13.9
3x120SM	18050000022	PADS No 006/186118	Tape	2	43	4,258	344	0.153	17.5
3X150SM	18050000023	PADS No 006/186106	Tape	2	43.3	5,020	346	0.124	21.8
3x185SM	18050000024	PADS No 006/186107	Tape	2	46.6	6,108	373	0.0991	26.9
3x16RM	18050000043	PADS No 006/186112	Tape	2	28.4	1,315	170	1.15	2.4
4x16RM	18050000044	PADS No 006/186148	Tape	2	30.6	1,541	184	1.15	2.4

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4X25RM	18050000045	PADS No 006/186149	Tape	2	33.9	2,056	203	0.727	3.7
4X35SM	18050000032	PADS No 006/186150	Tape	2	34.1	1,981	273	0.524	5.2
4x50SM	18050000033	PADS No 006/186151	Tape	2	36.5	2,501	292	0.387	7.4
4x70SM	18050000034	PADS No 006/186152	Tape	2	39.3	3,386	314	0.268	10.3
4x95SM	18050000006	PADS No 006/186153	Tape	2	41.8	4,437	334	0.193	13.9
4x120SM	18050000007	PADS No 006/186154	Tape	2	44.6	5,392	357	0.153	17.5
4x150SM	18050000035	PADS No 006/186108	Tape	2	47.1	6,462	377	0.124	21.8
4x185SM	18050000036	PADS No 006/186109	Tape	2	51.4	7,919	411	0.0991	26.9

CURRENT CARRYING CAPACITY

Cross- section (mm²)	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	94	78	78	115	100	100
25	123	102	102	149	127	127
35	148	122	122	185	158	158
50	175	144	144	225	192	192
70	215	177	177	289	246	246
95	254	209	209	359	298	298
120	289	237	237	410	346	346
150	326	267	267	473	399	399
185	365	299	299	542	456	456

Ground temperature: 20°C; Air temperature: 30°C Depth of laying: 0,7 m; Soil resistivity, moist: 2,5 K.m/W

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