N2XS2Y

Medium Voltage Cables

DESCRIPTION

}>For underground installation and demanding environmentsThe N2XS2Y complies with the standards DIN VDE 0276-620, HD 620 S2 and IEC 60502. It is suitable for installation indoors, in cable ducts, outdoors, in water, on cable trays, and especially underground. Thanks to its robust sheath, it is frequently used in industrial plants, power stations, and switching stations, where stability and durability are essential.Technical constructionThe conductor consists of bare, multi-stranded copper (Class 2), surrounded by an inner conductive layer and XLPE insulation with a tightly bonded outer conductive layer. The shielding is provided by a copper wire braid with counter helix. Additionally, the cable includes a conductive tape and features a black PE sheath (Type DMP2) that protects against moisture and mechanical abrasion.Features and application benefitsThe N2XS2Y is suitable for underground installation, free from silicone and cadmium, and not flame-retardant. It is rated for +90 °C in operation and +250 °C under short-circuit conditions. Thanks to its partial discharge-free design, it offers a high level of safety and is particularly well-suited for networks with heavy load and challenging routing conditions.

TECHNICAL DATA

CPR class	Fca	**Flame retardant**	no
Maximal operating conductor temperature (°C)	+90 °C	**Maximal short-circuit temperature (°C)**	+250 °C
Minimal storage temperature (°C)	-35 °C	**Minimal temperature for laying (°C)**	-20 °C
Operating temperature range (°C)	-35-+90 °C	**Shape of conductor**	RM

CROSS-SECTION DATA — 6/10 kV

Cores & CS	LF	LD mm	ID mm	DI mm	MWD mm	AD mm	BR	G kg	RI Ohm	BK	SBL 30	SBE 20
1x35/16	RM	7.2	3.4	15.3	2.1	24	360	803	0.524	5	197	187
1x50/16	RM	8.2	3.4	16.3	2.1	25	375	928	0.387	7.1	238	220
1x70/16	RM	9.8	3.4	17.9	2.1	26	390	1154	0.268	10	294	268
1x95/16	RM	11.3	3.4	19.4	2.1	28	420	1410	0.193	13.6	358	320
1x120/16	RM	12.8	3.4	20.9	2.1	30	450	1682	0.153	17.1	413	363
1x150/25	RM	14.2	3.4	22.3	2.1	31	465	2025	0.124	21.4	468	405
1x185/25	RM	15.8	3.4	23.9	2.1	32	480	2383	0.099	26.4	535	456
1x240/25	RM	18.3	3.4	26.4	2.1	35	525	2965	0.075	34.3	631	526
1x300/25	RM	20.7	3.4	28.8	2.1	37	555	3624	0.06	42.9	722	591
1x400/35	RM	23.3	3.4	31.4	2.1	40	600	4574	0.047	57.2	827	662
1x500/35	RM	26.5	3.4	34.6	2.1	43	645	5597	0.037	71.4	949	744

CROSS-SECTION DATA — 12/20 kV

Cores & CS	LF	LD mm	ID mm	DI mm	MWD mm	AD mm	BR	G kg	RI Ohm	BK	SBL 30	SBE 20
1x35/16	RM	7.2	5.5	19.5	2.1	28	420	948	0.524	5	200	189
1x50/16	RM	8.2	5.5	20.5	2.1	29	435	1078	0.387	7.1	239	222
1x70/16	RM	9.8	5.5	22.1	2.1	31	465	1315	0.268	10	297	271
1x95/16	RM	11.3	5.5	23.6	2.1	32	480	1579	0.193	13.6	361	323
1x120/16	RM	12.8	5.5	25.1	2.1	34	510	1861	0.153	17.1	416	367
1x150/25	RM	14.2	5.5	26.5	2.1	35	525	2212	0.124	21.4	470	409
1x185/25	RM	15.8	5.5	28.1	2.1	37	555	2585	0.099	26.4	538	461
1x240/25	RM	18.3	5.5	30.6	2.1	39	585	3181	0.075	34.3	634	532
1x300/25	RM	20.7	5.5	33	2.1	42	630	3763	0.06	42.9	724	599
1x400/35	RM	23.3	5.5	35.6	2.1	44	660	4795	0.047	57.2	829	671
1x500/35	RM	26.5	5.5	38.8	2.1	47	705	5872	0.037	71.4	953	754

CROSS-SECTION DATA — 18/30 kV

Cores & CS	LF	LD mm	ID mm	DI mm	MWD mm	AD mm	BR	G kg	RI Ohm	BK	SBL 30	SBE 20
1x50/16	RM	8.2	8	25.5	2.1	34	510	1292	0.387	7.1	241	225
1x70/16	RM	9.8	8	27.1	2.1	36	540	1542	0.268	10	299	274
1x95/16	RM	11.3	8	28.6	2.1	37	555	1817	0.193	13.6	363	327
1x120/16	RM	12.8	8	30.1	2.1	39	585	2110	0.153	17.1	418	371
1x150/25	RM	14.2	8	31.5	2.1	40	600	2473	0.124	21.4	472	414

1x185/25	RM	15.8	8	33.1	2.1	42	630	2853	0.099	26.4	539	466
1x240/25	RM	18.3	8	35.6	2.1	44	660	3467	0.075	34.3	635	539
1x300/25	RM	20.7	8	38	2.1	47	705	4164	0.06	42.9	725	606
1x400/35	RM	23.3	8	40.6	2.1	49	735	5131	0.047	57.2	831	680
1x500/35	RM	26.5	8	43.8	2.4	53	795	6234	0.037	71.4	953	765