NA2XH 0.6/1kV

Power Cables 0.6/1kV with AL conductors

Application

NA2XH power cable is used for low-voltage power distribution in fixed installations where improved fire safety is required. The LSZH (Low Smoke Zero Halogen) sheath reduces the emission of smoke and corrosive gases in the event of fire, making it suitable for installation in public buildings, transport infrastructure, and industrial facilities. Suitable for indoor and outdoor use, the cable can be installed in cable ducts, trays, and conduits where mechanical damage is not expected.

Characteristics

Voltage rating (Uo/U0,6/1 kV
Testing voltage 4 kV
Min. temp. for cable laying -5°C
Max. working temperature 90°C
Max. short-circuit temperature 250°C
Min. bending radius Single-core - 15D / Multicore- 12D
CPR classification B2ca-s1b,d1,a1 (single-core)
Cca-s1,d1,a1 (multi-core)

Construction

Conductors
Aluminium, class 1 (RE/SE) or class 2 (RM/SM) according to EN 60228
Insulation
XLPE compound
Bedding
Extruded elastomere or plastomere compound or plastic tape
Sheath
HFFR compound

Core Identification

3 core - Green & Yellow, Brown, Blue
3 core - Black, Brown, Grey
4 core - Green & Yellow, Brown, Black, Grey
4 core - Blue, Brown, Black, Grey
5 core - Green & Yellow, Blue, Brown, Black, Grey

Standards

IEC 60502-1, SI 1516-1, EN 60228
Low smoke emitting EN 61034-2
Halogen-free EN 60754-1/2
Vertical flame spread EN IEC 60332-3-24
Flame propagation EN 60332-1-2

Regulatory Compliance

THE COPPER MARK | RESPONSIBLY PRODUCED COPPER

The Copper Mark Partnership
- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	A	A	mm	KG/KM	KG/KM
Single Core cables							
1x16	RM	1.910	-	-	9.5	46.4	122
1x25	RM	1.200	106	114	11.9	72.5	175
1x35	RM	0.868	130	136	13.0	101.5	206
1x50	RM	0.641	161	162	14.9	145	267
1x70	RM	0.443	204	199	17.0	203	358
1x95	RM	0.320	252	238	18.9	275.5	451
1x120	RM	0.253	295	272	20.7	348	546
1x150	RM	0.206	339	305	22.7	435	655
1x185	RM	0.164	395	347	25.1	536.5	800
1x240	RM	0.125	472	404	27.6	696	987
1x300	RM	0.100	547	457	31.9	870	1324
1x400	RM	0.0778	643	525	34.9	1160	1640
1x500	RM	0.0605	754	601	39.3	1450	2030
1x630	RM	0.0469	882	687	44.1	1827	2400
1x800	RM	0.0367	1019	776	46.5	2320	2505
1x1000	RM	0.0291	1157	865	52.0	2900	3115
3 core cables							
3x16	RM	1.910	-	-	16.5	139.2	397
3x25	RM	1.200	102	112	20.0	217.5	587
3x35	RM/SM	0.868	126	135	22.5	304.5	531
3x50	RM	0.641	149	158	57.6	435	1007
3x70	RM	0.443	191	196	30.6	609	1401
3x95	RM	0.320	234	234	33.8	826.5	1801
3x120	RM	0.253	273	268	37.5	1044	2226
3x50	SE/SM	0.641	149	158	26.0	435	720
3x70	SE/SM	0.443	191	196	29.7	609	963
3x95	SE/SM	0.320	234	234	33.4	826.5	1246
3x120	SE/SM	0.253	273	268	37.1	1044	1545
3x150	SE/SM	0.206	311	300	41.2	1305	1916
3x185	SE/SM	0.164	360	342	45.7	1609.5	2347
3x240	SE/SM	0.125	427	398	51.6	2088	2987

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	A	A	mm	KG/KM	KG/KM
4 core cables							
3x70+35	SM/SM	0.443/0.868	191	196	28.8	655.4	935
3x95+50	SM/SM	0.320/0.641	234	234	32.2	899	1120
3x120+70	SM/SM	0.253/0.443	273	268	34.6	1145.5	1430
3x150+70	SM/SM	0.206/0.443	311	300	38.5	1450	1950
3x185+95	SM/SM	0.164/0.320	360	342	42.4	1812.5	2345
3x240+120	SM/SM	0.125/0.253	427	398	47.2	2363.50	2980
4x35	SM	0.868	126	135	25.9	406	690
4x50	SE/SM	0.641	149	158	28.4	580	832
4x70	SE/SM	0.443	191	196	32.4	812	1234
4x95	SE/SM	0.320	234	234	35.6	1102	1460
4x120	SE/SM	0.253	273	268	40.60	1392	1861
4x150	SE/SM	0.206	311	300	44.8	1740	2386
4x185	SE/SM	0.164	360	342	49.2	2146	2866
4x240	SE/SM	0.125	427	398	54.9	2784	3616
4x300	SE/SM	0.100	507	457	58.8	3480	4500
4 core - RE/RM							
4x16	RE/RM	1.910	-	-	19.9	185.6	560
4x25	RE/RM	1.200	102	112	23.5	290	791
4x35	RE/RM	0.868	126	135	26.2	406	999
4x50	RE/RM	0.641	149	158	28.0	580	1314
4x70	RE/RM	0.443	191	196	32.3	812	1784
4x95	RE/RM	0.320	234	234	36.5	1102	2291
4x120	RE/RM	0.253	273	268	40.6	1392	2813
4x150	RM	0.206	311	300	45.2	1740	3509
4x185	RM	0.164	360	342	50.2	2146	4283
4x240	RM	0.125	427	398	56.2	2784	5429
4x300	RM	0.100	507	457	61.9	3480	6604

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	A	A	mm	KG/KM	KG/KM
5core cables							
5x16	RM	1.910	-	-	23.4	232	625
5x25	RM	1.200	102	112	28.2	362.5	950
5x35	RM	0.868	126	135	31.0	507.5	1195
5x50	RM	0.641	149	158	36.8	725	1540
5x70	RM	0.443	191	196	42.8	1015	2240
5x95	RM	0.320	234	234	48.5	1377.5	3015
5x120	RM	0.253	273	268	53.6	1740	3580