

N2XH

power cable, 0,6/1 kV, halogen-free, without functionality



TECHNICAL DATA

Power and control cable acc. to DIN VDE 0276 part 604, HD 604 S1 part 1 and part 5G

Temperature range	during installation -5°C to +50°C fixed installation -30°C to +90°C
Permissible conductor operating temperature	+90°C
Nominal voltage	U ₀ /U 0,6/1 kV
Test voltage	4000 V
Minimum bending radius	single-core 15x cable Ø multi-core 12x cable Ø
Radiation resistance	up to 100x10 ⁶ cJ/kg (up to 100 Mrad)
Caloric load values	see "Technical Informations"

CABLE STRUCTURE

- Bare copper conductor, to DIN VDE 0295 cl.1 or cl.2, single-wire or multi-wire, BS 6360 cl.1 or cl.2, IEC 60228 cl.1 or cl.2
- Core insulation of cross-linked polyethylene (XLPE) compound type 2X11 to HD 604 S1
- Core identification to DIN VDE 0293-308
- Core identification for 3+½ conductor
J-type: GN-YE (½), BN, BK, GY
O-type: BU (½), BN, BK, GY
- Cores stranded in layers (for multi-core cables)
- Overall filled inner sheath
- Covered by filling compound or taping
- Outer sheath of thermoplastic polyolefine, compound type HM4 to HD 604 S1
- Sheath colour: black

PROPERTIES

- Halogen-free, no separation of corrosive or toxic gases
- Limited propagation of fire
- Low smoke development
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- Flame test acc. to DIN VDE 0482-332-3-24, BS 4066 part 3, DIN EN 60332-3-24, IEC 60332-3-24 (previously DIN VDE 0472 part 804 test method C)
- Corrosiveness of combustion gases acc. to DIN VDE 0482 part 267, DIN EN 50267-2-2, IEC 60754-2 (equivalent DIN VDE 0472 part 813)
- Halogen-free acc. to DIN VDE 0482 part 267, DIN EN 50267-2-1, IEC 60754-1 (equivalent DIN VDE 0472 part 815)
- Smoke density acc. to DIN VDE 0482 part 1034-1+2, DIN EN 61034-1+2, IEC 61034-1+2, BS 7622 part 1+2 (previously DIN VDE 0472 part 816)

APPLICATION

Halogen-free power cables with enhanced characteristics in case of fire are used for applications where harm to human life and damage to property must be prevented in the event of fire, e. g. in power stations, industrial installations, communal establishments, hotels, airports, underground stations, railway stations, hospitals department stores, banks, schools theaters, multi-storey buildings, process control centres etc. Suitable for fixed installation in dry, damp or wet environments, in, above, on and beneath plaster as well as in masonry walls and in concrete. These cables are suitable for outdoor applications and in underground by using in conduits or tubes. For the installation in conduit all precautions must be taken that no accumulation of water can occur in the pipes.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

NOTE

- re – round conductor, single-wire
rm – round conductor, multi-wire
sm – sectional conductor, multi-wire
- J-version = with GN-YE conductor
O-version = without GN-YE conductor
- AWG sizes are approximate equivalent values. The actual cross section is in mm²
- LS0H = Low Smoke Zero Halogen

Part no J type	O type	No. cores x cross- -sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	CPR class
	53558	1 x 1,5 rm	16	6,0	14,4	41,0	Fca, Eca, Dca, Cca, B2ca*
	53559	1 x 2,5 rm	14	6,5	24,0	53,0	Fca, Eca, Dca, Cca, B2ca*
53100	53248	1 x 4 re	12	8,0	39,0	68,0	Fca, Eca, Dca, Cca, B2ca*
53101	53249	1 x 6 re	10	9,0	58,0	90,0	Fca, Eca, Dca, Cca, B2ca*
53102	53250	1 x 10 re	8	9,0	96,0	140,0	Fca, Eca, Dca, Cca, B2ca*
53103	53251	1 x 16 re	6	10,0	154,0	190,0	Fca, Eca, Dca, Cca, B2ca*
53104	53252	1 x 25 rm	4	11,0	240,0	290,0	Fca, Eca, Dca, Cca, B2ca*
53105	53253	1 x 35 rm	2	12,0	336,0	390,0	Fca, Eca, Dca, Cca, B2ca*
53106	53254	1 x 50 rm	1	15,0	480,0	510,0	Fca, Eca, Dca, Cca, B2ca*
53107	53255	1 x 70 rm	2/0	17,0	672,0	710,0	Fca, Eca, Dca, Cca, B2ca*
53108	53256	1 x 95 rm	3/0	19,0	912,0	960,0	Fca, Eca, Dca, Cca, B2ca*
53109	53257	1 x 120 rm	4/0	21,0	1152,0	1200,0	Fca, Eca, Dca, Cca, B2ca*
53110	53258	1 x 150 rm	300 kcmil	23,0	1440,0	1480,0	Fca, Eca, Dca, Cca, B2ca*
53111	53259	1 x 185 rm	350 kcmil	25,0	1 776,0	1910,0	Fca, Eca, Dca, Cca, B2ca*

Continuation ►

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Part no J type	O type	No. cores x cross- -sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	CPR class
53112	53260	1 × 240 rm	500 kcmil	28,0	2304,0	2370,0	Fca, Eca, Dca, Cca, B2ca*
53113	53261	1 × 300 rm	600 kcmil	30,0	2880,0	2970,0	Fca, Eca, Dca, Cca, B2ca*
52485	52486	1 × 400 rm	750 kcmil	32,9	3840,0	3957,0	Fca, Eca, Dca, Cca, B2ca*
53114	53262	2 × 1,5 re	16	12,0	29,0	185,0	Fca, Eca, Dca, Cca, B2ca*
53115	53263	2 × 2,5 re	14	12,2	48,0	220,0	Fca, Eca, Dca, Cca, B2ca*
53116	53264	2 × 4 re	12	13,2	77,0	275,0	Fca, Eca, Dca, Cca, B2ca*
53117	53265	2 × 6 re	10	14,1	115,0	335,0	Fca, Eca, Dca, Cca, B2ca*
53118	53266	2 × 10 re	8	16,2	192,0	450,0	Fca, Eca, Dca, Cca, B2ca*
53119	53267	2 × 16 re	6	17,8	307,0	620,0	Fca, Eca, Dca, Cca, B2ca*
53120	53268	2 × 25 rm	4	21,0	480,0	930,0	Fca, Eca, Dca, Cca, B2ca*
53121	53269	3 × 1,5 re	16	13,0	43,0	220,0	Fca, Eca, Dca, Cca, B2ca*
53122	53270	3 × 2,5 re	14	14,0	72,0	280,0	Fca, Eca, Dca, Cca, B2ca*
53123	53271	3 × 4 re	12	15,0	115,0	350,0	Fca, Eca, Dca, Cca, B2ca*
53124	53272	3 × 6 re	10	16,0	173,0	420,0	Fca, Eca, Dca, Cca, B2ca*
53125	53273	3 × 10 re	8	18,0	288,0	600,0	Fca, Eca, Dca, Cca, B2ca*
53126	53274	3 × 16 re	6	20,0	461,0	770,0	Fca, Eca, Dca, Cca, B2ca*
53127	53275	3 × 25 rm	4	21,8	720,0	1120,0	Fca, Eca, Dca, Cca, B2ca*
53128	53276	3 × 35 sm	2	24,9	1008,0	1 550,0	Fca, Eca, Dca, Cca, B2ca*
53129	53277	3 × 50 sm	1	25,2	1440,0	1750,0	Fca, Eca, Dca, Cca, B2ca*
53130	53278	3 × 70 sm	2/0	29,2	2016,0	2450,0	Fca, Eca, Dca, Cca, B2ca*
53131	53279	3 × 95 sm	3/0	32,0	2736,0	3250,0	Fca, Eca, Dca, Cca, B2ca*
53132	53280	3 × 120 sm	4/0	34,9	3456,0	4000,0	Fca, Eca, Dca, Cca, B2ca*
53133	53281	3 × 150 sm	300 kcmil	39,2	4320,0	5000,0	Fca, Eca, Dca, Cca, B2ca*
53134	53282	3 × 185 sm	350 kcmil	44,1	5328,0	6150,0	Fca, Eca, Dca, Cca, B2ca*
53135	53283	3 × 240 sm	500 kcmil	49,2	6912,0	8000,0	Fca, Eca, Dca, Cca, B2ca*
53143	53284	4 × 1,5 re	16	13,0	58,0	235,0	Fca, Eca, Dca, Cca, B2ca*
53144	53285	4 × 2,5 re	14	14,0	96,0	290,0	Fca, Eca, Dca, Cca, B2ca*
53145	53286	4 × 4 re	12	15,0	154,0	370,0	Fca, Eca, Dca, Cca, B2ca*
53146	53287	4 × 6 re	10	16,0	230,0	470,0	Fca, Eca, Dca, Cca, B2ca*
53147	53288	4 × 10 re	8	18,0	384,0	670,0	Fca, Eca, Dca, Cca, B2ca*
53148	53289	4 × 16 re	6	20,0	614,0	930,0	Fca, Eca, Dca, Cca, B2ca*
53149	53290	4 × 25 rm	4	25,0	960,0	1440,0	Fca, Eca, Dca, Cca, B2ca*
53150	53291	4 × 35 sm	2	27,0	1344,0	1890,0	Fca, Eca, Dca, Cca, B2ca*
53151	53292	4 × 50 sm	1	28,0	1 920,0	2300,0	Fca, Eca, Dca, Cca, B2ca*
53152	53293	4 × 70 sm	2/0	32,0	2688,0	3200,0	Fca, Eca, Dca, Cca, B2ca*
53153	53294	4 × 95 sm	3/0	36,0	3648,0	4250,0	Fca, Eca, Dca, Cca, B2ca*
53154	53295	4 × 120 sm	4/0	40,2	4608,0	5350,0	Fca, Eca, Dca, Cca, B2ca*
53155	53296	4 × 150 sm	300 kcmil	45,8	5760,0	6550,0	Fca, Eca, Dca, Cca, B2ca*
53156	53297	4 × 185 sm	350 kcmil	49,5	7104,0	8100,0	Fca, Eca, Dca, Cca, B2ca*
53157	53298	4 × 240 sm	500 kcmil	56,0	9216,0	10550,0	Fca, Eca, Dca, Cca, B2ca*
53158	53299	5 × 1,5 re	16	14,5	72,0	280,0	Fca, Eca, Dca, Cca, B2ca*
53159	53309	5 × 2,5 re	14	16,0	120,0	350,0	Fca, Eca, Dca, Cca, B2ca*
53160	53310	5 × 4 re	12	17,0	192,0	450,0	Fca, Eca, Dca, Cca, B2ca*
53161	53311	5 × 6 re	10	18,5	288,0	600,0	Fca, Eca, Dca, Cca, B2ca*
53162	53312	5 × 10 re	8	21,0	480,0	850,0	Fca, Eca, Dca, Cca, B2ca*
53163	53313	5 × 16 re	6	24,0	768,0	1200,0	Fca, Eca, Dca, Cca, B2ca*
53557		5 × 25 rm	4	28,0	1200,0	1 539,0	Fca, Eca, Dca, Cca, B2ca*
53164	53314	7 × 1,5 re	16	15,5	101,0	350,0	Fca, Eca, Dca, Cca, B2ca*
53171	53315	7 × 2,5 re	14	17,0	168,0	370,0	Fca, Eca, Dca, Cca, B2ca*
53178	53316	7 × 4 re	12	17,2	269,0	530,0	Fca, Eca, Dca, Cca, B2ca*
53165	53317	10 × 1,5 re	16	18,5	144,0	480,0	Fca, Eca, Dca, Cca, B2ca*
53172	53318	10 × 2,5 re	14	20,0	240,0	500,0	Fca, Eca, Dca, Cca, B2ca*
53166	53319	12 × 1,5 re	16	19,0	173,0	520,0	Fca, Eca, Dca, Cca, B2ca*
53173	53320	12 × 2,5 re	14	21,0	288,0	560,0	Fca, Eca, Dca, Cca, B2ca*
53179	53321	12 × 4 re	12	21,2	461,0	800,0	Fca, Eca, Dca, Cca, B2ca*
53167	53322	14 × 1,5 re	16	20,0	202,0	550,0	Fca, Eca, Dca, Cca, B2ca*
53174	53323	14 × 2,5 re	14	22,0	336,0	630,0	Fca, Eca, Dca, Cca, B2ca*
53168	53324	19 × 1,5 re	16	22,0	274,0	700,0	Fca, Eca, Dca, Cca, B2ca*
53175	53325	19 × 2,5 re	14	24,0	456,0	800,0	Fca, Eca, Dca, Cca, B2ca*
53169	53326	24 × 1,5 re	16	25,0	346,0	850,0	Fca, Eca, Dca, Cca, B2ca*
53176	53327	24 × 2,5 re	14	27,0	576,0	990,0	Fca, Eca, Dca, Cca, B2ca*
53170	53328	30 × 1,5 re	16	26,0	432,0	950,0	Fca, Eca, Dca, Cca, B2ca*
53177	53329	30 × 2,5 re	14	28,0	720,0	1180,0	Fca, Eca, Dca, Cca, B2ca*

*If class B2ca is not in the table below

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	CPR class
11022198	1 × 16 re	6	10,0	154,0	190,0	B2ca
11022199	1 × 25 rm	4	11,0	240,0	290,0	B2ca
11022200	1 × 35 rm	2	12,0	336,0	390,0	B2ca
11022201	1 × 50 rm	1	15,0	480,0	510,0	B2ca
11022202	1 × 70 rm	2/0	17,0	672,0	710,0	B2ca
11022203	1 × 95 rm	3/0	19,0	912,0	960,0	B2ca
11022204	1 × 120 rm	4/0	21,0	1152,0	1200,0	B2ca
11022205	1 × 150 rm	300 kcmil	23,0	1440,0	1480,0	B2ca
11022206	1 × 185 rm	350 kcmil	25,0	1776,0	1910,0	B2ca
11022207	1 × 240 rm	500 kcmil	28,0	2304,0	2370,0	B2ca
11022208	1 × 300 rm	600 kcmil	30,0	2880,0	2970,0	B2ca

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.	CPR class
11025441	3 G 1,5 re	16	13,0	43,0	220,0	B2ca
11022191	5 G 1,5 re	16	14,5	72,0	280,0	B2ca
11025440	3 G 2,5 re	14	14,0	72,0	280,0	B2ca
11022192	5 G 2,5 re	14	16,0	120,0	350,0	B2ca
11022193	5 G 4 re	12	17,0	192,0	450,0	B2ca
11022194	5 G 6 re	10	18,5	288,0	600,0	B2ca
11022195	5 G 10 re	8	21,0	480,0	850,0	B2ca
11022196	5 G 16 re	6	24,0	768,0	1200,0	B2ca
11022197	5 G 25 rm	4	28,0	1200,0	1539,0	B2ca
11021525	5 G 35 rm	2	28,0	1680,0	2100,0	B2ca
11029412	5 G 120 rm	4/0	48,0	5760,0	792,0	B2ca