

Shielded connection and power cable – halogen free, flame retardant and temperature resistant.

Application

Fixed and flexible application in dry, humid and wet rooms. Good weather and UV resistance. Extensively oil resistant. Intended for installation outdoors. Typical areas of application are connections of:

Lamps / Heating units / Electrical machinery (thermal class B)/ Switchboards / switch cabinets and distributors in apparatus, mechanical or plant engineering.

Standards / material properties

Halogenfree	IEC 60754-1, EN 50267-2-1
No corrosive gases	IEC 60754-2, EN 50267-2-2
No toxic gases	NF X 70-100
Low smoke density	IEC 61034, DIN EN 61034-2, EN 50268-2
Flame retardant	EN IEC 60332-1-2, FT2
Non-flame propagating	IEC 60332-3, DIN EN 60332-3, EN 50266-2
Low fire load	DIN 51900
Oil resistant	EN 50264-1, 72h/100°C, IRM 902
Fuel resistant	EN 50264-1, 168h/70°C, IRM 903

Construction

Conductor	Tinned fine copper strands acc. VDE 0295 / IEC 60228 class 5
Insulation	Polyolefin Copolymer, electronbeam cross-linked
Core identification	≤ 5 Cores according HD 308 S2, ≥ 6 Cores NR, NRPE
Shield	Tinned fine copper braid, min. 85% coverage
Outer sheath	Polyolefin Copolymer, electronbeam cross-linked, colour black

Technical properties

Nominal voltage	Uo/U	1000 V
Testing voltage	core/core	3500 V
	core/shield	2500 V
Temperature range	fixed installation	- 55 up to + 145°C
	occasionally moved	- 35 up to + 120°C
	Short circuit	+ 280°C
Bending radius	fixed installation	> 4 x outer-Ø
	occasionally moved	> 8 x outer-Ø

Approvals

UL AWM Style 4486, 125 °C 1000 V	File Nr. E146164
cUL AWM I/II AB, 125 °C 1000 V	

Construction n x mm ²	Core- function	Core- Ø mm	Outer- Ø mm	Weight kg/km	Fire load kWh/m	Article no.
2 x 0,50	NR	2.50	7.3	73	0.19	317303
3 x 0,50	NR	2.50	7.7	80	0.20	①
4 x 0,50	NR	2.50	8.3	97	0.24	①
5 x 0,50	NR	2.50	9.1	116	0.29	①
7 x 0,50	NR	2.50	10.6	158	0.41	①
1 x 0,75	L	2.75	5.1	42	0.10	①
2 x 0,75	LN	2.75	7.8	84	0.22	①
2 x 0,75	NR	2.75	7.8	84	0.22	308592
3 G 0,75	LNPE	2.75	8.2	94	0.22	①
3 x 0,75	NR	2.75	8.2	94	0.22	308593
4 x 0,75	NR	2.75	9.0	115	0.27	308594
4 G 0,75	3LNPE	2.75	9.0	115	0.27	①
5 G 0,75	NRPE	2.75	9.8	138	0.33	①
6 x 0,75	NR	2.75	10.6	163	0.39	①
7 G 0,75	NRPE	2.75	11.5	191	0.46	①
8 G 0,75	NRPE	2.75	12.4	222	0.55	①
10 x 0,75	NR	2.75	13.5	250	0.60	316813
12 G 0,75	NRPE	2.75	13.5	262	0.59	①
14 G 0,75	NRPE	2.75	14.3	299	0.67	①
16 G 0,75	NRPE	2.75	15.2	348	0.76	①
19 G 0,75	NRPE	2.75	16.8	425	0.96	①
21 G 0,75	NRPE	2.75	17.8	400	0.93	①
1 x 1	L	2.85	5.2	45	0.1	①
2 x 1	NR	2.85	8.0	82	0.19	①
3 x 1	NR	2.85	8.5	102	0.23	①
3 G 1	NRPE	2.85	8.5	102	0.23	①
4 x 1	NRPE	2.85	9.2	125	0.28	308598
5 x 1	NR	2.85	10.1	152	0.34	①
5 G 1	NRPE	2.85	10.1	152	0.34	①
6 x 1	NR	2.85	11.0	182	0.40	①
7 G 1	NRPE	2.85	12.0	214	0.49	①
8 x 1	NR	2.85	13.0	250	0.59	①
10 G 1	NRPE	2.85	14.0	280	0.63	①
12 x 1	NR	2.85	14.0	296	0.62	①
1 x 1,5	L	3.15	5.5	51	0.12	①
2 x 1,5	NR	3.15	8.6	105	0.25	①
3 x 1,5	NR	3.15	9.1	121	0.25	①
3 G 1,5	LNPE	3.15	9.1	121	0.25	①
4 x 1,5	NR	3.15	10.0	151	0.31	308611
4 G 1,5	2LNPE	3.15	10.0	151	0.31	①
4 G 1,5	NRPE	3.15	10.0	151	0.31	①
5 x 1,5	NR	3.15	10.9	185	0.38	①
5 G 1,5	NRPE	3.15	10.9	185	0.38	①

Construction n x mm ²	Core- function	Core- Ø mm	Outer- Ø mm	Weight kg/km	Fire load kWh/m	Article no.
6 x 1,5	NR	3.15	11.9	218	0.46	①
7 x 1,5	NR	3.15	12.9	257	0.55	①
7 G 1,5	NRPE	3.15	12.9	257	0.55	①
8 x 1,5	NR	3.15	13.9	301	0.67	308269
10 x 1,5	NR	3.15	15.3	353	0.72	316814
12 x 1,5	NR	3.15	15.3	374	0.70	①
14 x 1,5	NR	3.15	16.1	427	0.80	①
16 x 1,5	NR	3.15	17.1	483	0.91	①
19 x 1,5	NR	3.15	19.1	592	1.16	①
21 x 1,5	NR	3.15	21.2	711	1.48	①
25 G 1,5	NRPE	3.15	22.4	788	1.57	①
1 x 2,5	L	3.65	6.0	65	0.13	①
2 x 2,5	NR	3.65	9.6	140	0.31	308615
3 x 2,5	NR	3.65	10.2	162	0.30	①
3 G 2,5	LNPE	3.65	10.2	162	0.30	①
3 G 2,5	NRPE	3.65	10.2	162	0.30	308617
4 x 2,5	NR	3.65	11.2	206	0.38	①
4 G 2,5	2LNPE	3.65	11.2	206	0.38	①
4 G 2,5	NRPE	3.65	11.2	206	0.38	①
5 x 2,5	NR	3.65	12.2	249	0.46	①
5 G 2,5	NRPE	3.65	12.2	249	0.46	①
6 x 2,5	NR	3.65	13.4	298	0.55	①
7 G 2,5	NRPE	3.65	14.5	352	0.67	①
8 x 2,5	NR	3.65	15.8	423	0.81	①
10 x 2,5	NR	3.65	17.4	489	0.88	①
12 x 2,5	NR	3.65	17.4	520	0.84	①
14 x 2,5	NR	3.65	18.4	595	0.96	①
16 x 2,5	NR	3.65	20.5	728	1.26	①
19 x 2,5	NR	3.65	22.7	902	1.66	①
21 x 2,5	NR	3.65	22.7	933	1.62	①
1 x 4	L	4.15	6.5	83	0.15	①
2 x 4	NR	4.15	10.6	182	0.36	①
3 x 4	NR	4.15	11.3	215	0.35	①
3 G 4	NRPE	4.15	11.3	215	0.35	①
4 x 4	NR	4.15	12.4	273	0.43	①
5 G 4	NRPE	4.15	13.6	335	0.54	①
6 x 4	NR	4.15	14.9	403	0.65	①
7 x 4	NR	4.15	16.4	491	0.80	①
8 x 4	NR	4.15	17.6	554	0.91	①
10 x 4	NR	4.15	20.5	711	1.20	①
12 x 4	NR	4.15	20.5	766	1.15	①
14 x 4	NR	4.15	21.6	876	1.30	①

Construction n x mm ²	Core- function	Core- Ø mm	Outer- Ø mm	Weight kg/km	Fire load kWh/m	Article no.
1 x 6	L	4.70	7.0	106	0.17	①
2 x 6	NR	4.70	11.7	233	0.43	①
3 G 6	NRPE	4.70	12.4	297	0.47	310431
4 x 6	NR	4.70	13.8	382	0.60	①
4 G 6	2LNPE	4.70	13.8	382	0.60	①
5 x 6	NR	4.70	15.3	476	0.71	308880
7 x 6	NR	4.70	18.1	647	0.94	①
1 x 10	L	6.50	8.8	166	0.26	①
2 x 10	NR	6.50	15.4	396	0.71	①
3 x 10	NR	6.50	16.4	508	0.82	①
4 x 10	NR	6.50	18.2	645	1.01	①
5 x 10	NR	6.50	21.1	848	1.40	①
6 x 10	NR	6.50	23.1	1014	1.70	①
7 x 10	NR	6.50	25.4	1180	2.00	①
1 x 16	L	8.20	10.4	245	0.20	①
2 x 16	NR	8.20	18.8	596	1.07	①
3 x 16	NR	8.20	21.1	830	1.40	①
4 x 16	NR	8.20	23.4	1052	1.73	①
5 G 16	NRPE	8.20	25.8	1295	2.12	①
1 x 25	L	9.40	11.6	336	0.41	①
2 x 25	NR	9.40	22.2	867	1.47	①
3 x 25	NR	9.40	23.7	1131	1.67	①
4 x 25	NR	9.40	26.2	1434	2.00	①
5 G 25	NRPE	9.40	30.1	1846	2.70	①
1 x 35	L	10.90	13.1	450	0.50	①
2 x 35	NR	10.90	25.2	1114	1.70	①
3 x 35	NR	10.90	26.9	1503	2.04	①
4 x 35	NR	10.90	30.8	2018	2.77	①
5 G 35	NRPE	10.90	34.2	2496	3.35	①

Dimensional and weight deviations due to technical progress or changed manufacturing processes are reserved.