

SAFETY CABLES WITH CIRCUIT INTEGRITY

JE-H(St)H...Bd FE180/E30-E90

SiR/FRNC halogen-free installation cable with
insulation integrity and circuit integrity,
screened



TECHNICAL DATA



Standard
adapted to DIN VDE 0815



Certificate
VDE Germany



Test Voltage
core/core 500 V / 50 Hz
core/screen 2000 V / 50 Hz



Rated Voltage
max. 225 Vss



Bending radius (min.)
7,5 x Ø of cable



Fire properties
EN 60332-1-2: self-extinguishing
EN 60754-2: halogen-free, non-corrosive
combustion gases
EN 61034-2: low smoke emission
EN 60332-3-22: reduced flame propagation
IEC 60331-23: insulation integrity FE180
DIN 4102-12: circuit integrity E30-E90



Core identification
DIN VDE 0815



Temperature range
Laying temperature: min. -5°C
Operating temperature: -30°C up to 70°C

DESIGN



1 Copper conductor, round solid (RE)



2 Core insulation (silicone rubber), cores pair stranded,
marking with green thread



3 Inner covering (plastic tape)



4 Screen (plastic laminated aluminium tape with drain wire)



5 Sheath (halogen-free polymer compound, orange or red)

Electrical Parameters

Conductor diameter	mm	0.8
Loop resistance max.	Ω/km	73.2
Mutual capacitance (approx. value), at 800 Hz	nF/km	120
Mutual capacitance, max.	nF/km	144
Capacitance unbalance, max. k	pF/500m	400
Insulation resistance, min. at 20 °C	MΩ/km	100

Number of pairs x nominal diameter	Outer diameter appr. (mm)	Total weight appr. (kg/km)
1 x 2 x 0.8	7.5	69
2 x 2 x 0.8	8.2	89
4 x 2 x 0.8	11.3	142
8 x 2 x 0.8	14.0	230
12 x 2 x 0.8	16.4	314
16 x 2 x 0.8	18.8	412
20 x 2 x 0.8	20.5	493
32 x 2 x 0.8	25.4	752
40 x 2 x 0.8	27.9	908
52 x 2 x 0.8	31.0	1166



System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	Laying type No.
Normtrag	Rinne	E90	n x 2 x = 0.8	a ≤ 1200 mm b = 300 mm g ≤ 10 kg/m	P-MPA-E-09-016	2.2.14 – 2
Normtrag	Leiter	E60	n x 2 x = 0.8	a ≤ 1200 mm b = 400 mm g ≤ 20 kg/m	P-MPA-E-09-016	2.2.14 – 1
Normtrag	Abstandschele	E90	n x 2 x = 0.8	a ≤ 300 mm	P-MPA-E-09-016	2.2.14 – 3
Normtrag	Bügeschelle mit LW	E90	n x 2 x = 0.8	a ≤ 600 mm	P-MPA-E-09-016	2.2.14 – 4
OBO Bettermann	GRM 55/ + AW15/ (AWG15/)	E90	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 15 kg/m	P-MPA-E-23-003	5.1
OBO Bettermann	2056/M	E90	n x 2 x = 0.8	a ≤ 800 mm	P-MPA-E-23-003	8.1
OBO Bettermann	2034M	E90	n x 2 x = 0.8	a ≤ 500 mm	P-MPA-E-23-003	10.2
OBO Bettermann	RKSM 630 + AW55/31	E90	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 20 kg/m	P-MPA-E-23-001	1.1
OBO Bettermann	RKSM 640 + AW55/41	E90	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 20 kg/m	P-MPA-E-23-001	1.2
OBO Bettermann	FireBox T350ED 4-28 AD + 732 (decke)	E90	n x 2 x = 0.8		P-1036 DMT DO	XV
OBO Bettermann	FireBox T350ED 4-28 AD + 732 (decke)	E90	n x 2 x = 0.8		P-1036 DMT DO	XVI
OBO Bettermann	2031-M/30	E60	n x 2 x = 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-MPA-E-23-003	6.2
OBO Bettermann	732/733	E60	n x 2 x = 0.8	a ≤ 800 mm	P-MPA-E-23-003	8.2
OBO Bettermann	RKSM 640 + AW55/41	E60	n x 2 x = 0.8	a ≤ 1550 mm b = 400 mm g ≤ 20 kg/m	P-1036 DMT DO	II
OBO Bettermann	2031-M/70	E30	n x 2 x = 0.8	a ≤ 800 mm g ≤ 6 kg/m	P-MPA-E-23-003	6.3
OBO Bettermann	2033M	E30	n x 2 x = 0.8	a ≤ 500 mm	P-MPA-E-23-003	10.1
OBO Bettermann	2031/M30	E30	n x 2 x = 0.8	a ≤ 500 mm g ≤ 2.5 kg/m	P-1016 DMT DO	XI
OBO Bettermann	RKSM 630 + AW55/31	E30	n x 2 x = 0.8	a ≤ 1550 mm b = 300 mm g ≤ 20 kg/m	P-1036 DMT DO	I
OBO Bettermann	RKSM 630 + AW55/31	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 20 kg/m	P-1036 DMT DO	XIII
OBO Bettermann	RKSM 640 + AW55/41	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 20 kg/m	P-1036 DMT DO	XIV
Niedax	SHS30 (wand)	E90	n x 2 x = 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-MPA-E-09-016	2.2.16 – 4
Niedax	SHS30 (decke)	E90	n x 2 x = 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-MPA-E-09-016	2.2.17 – 6
Niedax	Bügeschellen B	E60	n x 2 x = 0.8	a ≤ 800 mm	P-MPA-E-23-003	9.1
Niedax	Abstandschele SAS	E60	n x 2 x = 0.8	a ≤ 800 mm	P-MPA-E-23-003	9.2
Niedax	RLVC 60.400 S + KTAS400 (wand)	E60	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 30 kg/m	P-1036 DMT DO	XI
Niedax	RLVC 60.300 + KTAS300	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 20 kg/m	P-MPA-E-23-003	3.1



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Niedax	SHS15	E30	n x 2 x = 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-MPA-E-23-003	7.1
Niedax	SHS80	E30	n x 2 x = 0.8	a ≤ 800 mm g ≤ 6 kg/m	P-MPA-E-23-003	7.3
Niedax	LLK	E30	n x 2 x = 0.8	a ≤ 500 mm g ≤ 3 kg/m	P-MPA-E-23-003	12.1
Niedax	RLVC 60.400 S + KTA400	E30	n x 2 x 0.8	a ≤ 1500 mm b = 400 mm g ≤ 30 kg/m	P-1016 DMT DO	II
Niedax	RLVC 60.300 S + KTAS300	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 25 kg/m	P-1036 DMT DO	VII
Niedax	RLVC 60.400 S + KTAS400	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 30 kg/m	P-1036 DMT DO	VIII
Niedax	SHS30 (decke)	E30	n x 2 x = 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-1036 DMT DO	IX
Niedax	SHS80 (wand)	E30	n x 2 x = 0.8	a ≤ 800 mm g ≤ 6 kg/m	P-1036 DMT DO	X
Niedax	RLVC 60.300 S + KTAS300 (wand)	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 25 kg/m	P-1036 DMT DO	XII
Niedax	MTC 54.050 + GTCB 50/100	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 50 mm g ≤ 5 kg/m	P-1036 DMT DO	XXII
Niedax	MTC 54.200 + KTAS200	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 200 mm g ≤ 15 kg/m	P-1036 DMT DO	XXI
Lanz	WSP-Multibahn 400x60 (decke)	E90	n x 2 x 0.8	a ≤ 1800 mm g ≤ 20 kg/m	P-1016 DMT DO	XIV
Lanz	G-Kanal 50x100	E30	n x 2 x 0.8	a ≤ 1500 mm g ≤ 10 kg/m	P-1016 DMT DO	IV
Lanz	WSP-Multibahn 400x60 (wand)	E30	n x 2 x 0.8	a ≤ 1800 mm g ≤ 20 kg/m	P-1016 DMT DO	XIII
PUK	RG 60-30S + KWMS 030F	E90	n x 2 x = 0.8	a ≤ 1550 mm b = 300 mm g ≤ 20 kg/m	P-1036 DMT DO	IV
PUK	RG 60-40S + KWMS 040F	E90	n x 2 x = 0.8	a ≤ 1550 mm b = 400 mm g ≤ 20 kg/m	P-1036 DMT DO	V
PUK	RG 60-40S + KWMS 040F (wand)	E90	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 20 kg/m	P-1036 DMT DO	VI
PUK	LGG-BS 60-40-3S + KW 040F	E60	n x 2 x = 0.8	a ≤ 1200 mm b = 400 mm g ≤ 20 kg/m	P-1036 DMT DO	XVII
PUK	LGG-BS 60-40-3S + KW 040F	E60	n x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 20 kg/m	P-1036 DMT DO	XVIII
PUK	RG 60-30S + KWMS 030F	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 20 kg/m	P-1036 DMT DO	III
PUK	GI 30S + KWMS 030F	E30	n x 2 x = 0.8	a ≤ 1500 mm b = 300 mm g ≤ 15 kg/m	P-1036 DMT DO	XIX
PUK	SH QS 15	E30	n x 2 x = 0.8	a ≤ 500 mm g ≤ 1.5 kg/m	P-1036 DMT DO	XX
PohlCon	RG-BS 60-40E4 + DB-T 40EC	E90	≥ 2 x 2 x = 0.8	a ≤ 1500 mm b = 400 mm g ≤ 30 kg/m	P-1043 DMT DO	I



System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	Laying type No.
PohlCon	RG-BS 60-30E4 + DB-T 30EC	E90	$\approx 2 \times 2 \times \approx 0.8$	a $\leq$ 1500 mm b = 300 mm g $\leq$ 15 kg/m	P-1043 DMT DO	II
PohlCon	Bügeschelle AC + KHA 8	E90	$\approx 2 \times 2 \times \approx 0.8$	a $\leq$ 800 mm	P-1043 DMT DO	VII
PohlCon	Bügeschelle AC + KHA 7	E90	$\approx 2 \times 2 \times \approx 0.8$	a $\leq$ 750 mm	P-1043 DMT DO	IX

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