PRAKAB

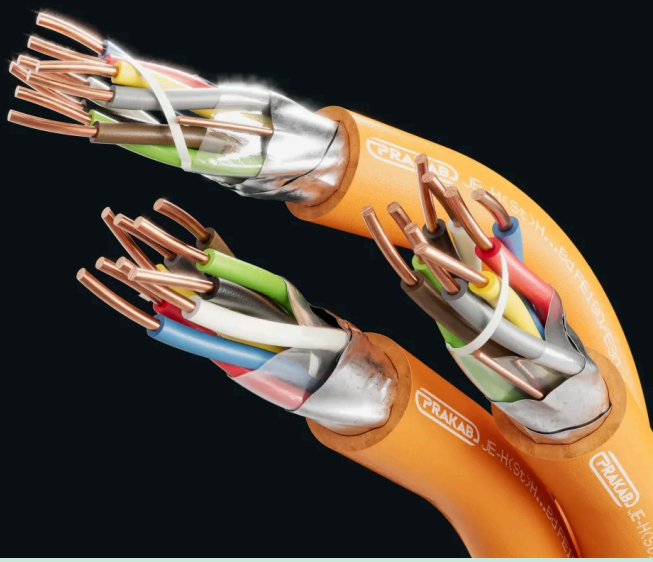
We Make Modern Life Possible.

SAFETY CABLES

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

halogen-free installation control cable with insulation integrity and circuit integrity, screened, VDE Reg. Nr. 8553

Measuring and control cable providing functional integrity in the event of fire. Not designed for laying in earth or water. Not UV and water resistant.



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)

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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	AbP part 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	Abstandschelle	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	Gitterrinne 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	Bügelschelle 2056/M	E90	n x 2 x ≥ 0.8	a ≤ 800 mm	P-MPA-E-23-003	8.1
OBO Bettermann	Kabelklammer 2034M	E90	n x 2 x ≥ 0.8	a ≤ 500 mm	P-MPA-E-23-003	10.2
OBO Bettermann	Rinne 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	Rinne 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	Abzweigkäste FireBox T350ED 4-28 AD + 732 (decke)	E90	n x 2 x ≥ 0.8		P-1036 DMT DO	XV
OBO Bettermann	Abzweigkäste FireBox T350ED 4-28 AD + 732 (wand)	E90	n x 2 x ≥ 0.8		P-1036 DMT DO	XVI
OBO Bettermann	Sammelhalter 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	Schelle 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	Sammelhalter 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	Kabelklammer 2033M	E30	n x 2 x ≥ 0.8	a ≤ 500 mm	P-MPA-E-23-003	10.1
OBO Bettermann	Sammelhalter 2031/ M30	E30	n x 2 x 0.8	a ≤ 500 mm g ≤ 2.5 kg/m	P-1016 DMT DO	XI
OBO Bettermann	Rinne 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
Niedax	Sammelhalter 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	Sammelhalter 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	Bügelschellen B	E60	n x 2 x ≥ 0.8	a ≤ 800 mm	P-MPA-E-23-003	9.1
Niedax	Abstandschelle SAS	E60	n x 2 x ≥ 0.8	a ≤ 800 mm	P-MPA-E-23-003	9.2
Niedax	Rinne 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	Rinne 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
Niedax	Sammelhalter SHS15	E30	n x 2 x ≥ 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-MPA-E-23-003	7.1

System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	AbP part no.
Niedax	Sammelhalter SHS80	E30	n x 2 x ≥ 0.8	a ≤ 800 mm g ≤ 6 kg/m	P-MPA-E-23-003	7.3
Niedax	Kabelkanal LLK	E30	n x 2 x ≥ 0.8	a ≤ 500 mm g ≤ 3 kg/m	P-MPA-E-23-003	12.1
Niedax	Rinne 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	Rinne 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	Rinne 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	Sammelhalter SHS30 (decke)	E30	n x 2 x ≥ 0.8	a ≤ 600 mm g ≤ 3 kg/m	P-1036 DMT DO	IX
Niedax	Sammelhalter SHS80 (wand)	E30	n x 2 x ≥ 0.8	a ≤ 800 mm g ≤ 6 kg/m	P-1036 DMT DO	X
Niedax	Rinne 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	Gitterrinne 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	Gitterrinne 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 m 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	AbP part no.
PohlCon	RG-BS 60-30E4 + DB-T 30EC	E90	≥ 2 x 2 x ≥ 0.8	a ≤ 1500 mm b = 300 mm g ≤ 15 kg/m	P-1043 DMT DO	II
PohlCon	Bügeschelle AC + KHA 8	E90	≥ 2 x 2 x ≥ 0.8	a ≤ 800 mm	P-1043 DMT DO	VII
PohlCon	Bügeschelle AC + KHA 7	E90	≥ 2 x 2 x ≥ 0.8	a ≤ 750 mm	P-1043 DMT DO	IX
OBO Bettermann	Abzweigkäste FireBox + Klemme TK04 und TP04	E60-E90	≥ 2 x 2 x ≥ 0.8		ABP_P-MPA-E-20-002	1.1 - 1.3

Technical changes reserved. All figures are therefore without guarantee.



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