

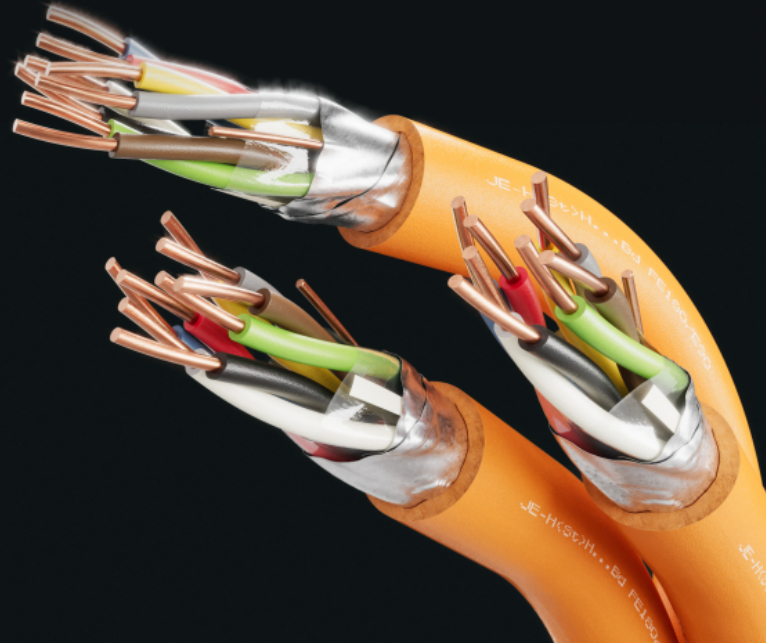


JE-H(St)H...Bd FE180/E30-E90

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

SAFETY CABLES WITH CIRCUIT INTEGRITY

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	 Bending radius (min.) 7,5 x Ø of cable	 Core identification DIN VDE 0815
 Certificate VDE Germany	 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	 Temperature range Laying temperature: min. -5°C Operating temperature: -30°C up to 70°C
 Test Voltage core/core 500 V / 50 Hz core/screen 2000 V / 50 Hz		
 Rated Voltage max. 225 Vss		

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	144
Mutual capacitance, max.	nF/km	120
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	7.3	63
2 x 2 x 0.8	8.1	86
4 x 2 x 0.8	11.3	140
8 x 2 x 0.8	13.9	225
12 x 2 x 0.8	16.3	307
16 x 2 x 0.8	18.3	386
20 x 2 x 0.8	20.5	482
32 x 2 x 0.8	25.3	734
52 x 2 x 0.8	31.0	1108



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	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	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	Abstandschelle 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
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



System / System Manufacturer	System identification	Classification	Range	Distance (a) /Width (b) / Load (g)	AbP number	Laying type No.
Niedax	SHS30 (decke)	E30	$n \times 2 \times \approx 0.8$	$a \approx 600 \text{ mm}$ $g \approx 3 \text{ kg/m}$	P-1036 DMT DO	IX
Niedax	SHS80 (wand)	E30	$n \times 2 \times \approx 0.8$	$a \approx 800 \text{ mm}$ $g \approx 6 \text{ kg/m}$	P-1036 DMT DO	X
Niedax	RLVC 60.300 S + KTAS300 (wand)	E30	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 25 \text{ kg/m}$	P-1036 DMT DO	XII
Niedax	MTC 54.050 + GTCB 50/100	E30	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 50 \text{ mm}$ $g \approx 5 \text{ kg/m}$	P-1036 DMT DO	XXII
Niedax	MTC 54.200 + KTAS200	E30	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 200 \text{ mm}$ $g \approx 15 \text{ kg/m}$	P-1036 DMT DO	XXI
Lanz	WSP-Multibahn 400x60 (decke)	E90	$n \times 2 \times 0.8$	$a \approx 1800 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1016 DMT DO	XIV
Lanz	G-Kanal 50x100	E30	$n \times 2 \times 0.8$	$a \approx 1500 \text{ mm}$ $g \approx 10 \text{ kg/m}$	P-1016 DMT DO	IV
Lanz	WSP-Multibahn 400x60 (wand)	E30	$n \times 2 \times 0.8$	$a \approx 1800 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1016 DMT DO	XIII
PUK	RG 60-30S + KWMS 030F	E90	$n \times 2 \times \approx 0.8$	$a \approx 1550 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1036 DMT DO	IV
PUK	RG 60-40S + KWMS 040F	E90	$n \times 2 \times \approx 0.8$	$a \approx 1550 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1036 DMT DO	V
PUK	RG 60-40S + KWMS 040F (wand)	E90	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1036 DMT DO	VI
PUK	LGG-BS 60-40-3S + KW 040F	E60	$n \times 2 \times \approx 0.8$	$a \approx 1200 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1036 DMT DO	XVII
PUK	LGG-BS 60-40-3S + KW 040F	E60	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1036 DMT DO	XVIII
PUK	RG 60-30S + KWMS 030F	E30	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 20 \text{ kg/m}$	P-1036 DMT DO	III
PUK	GI 30S + KWMS 030F	E30	$n \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 15 \text{ kg/m}$	P-1036 DMT DO	XIX
PUK	SH QS 15	E30	$n \times 2 \times \approx 0.8$	$a \approx 500 \text{ mm}$ $g \approx 1.5 \text{ kg/m}$	P-1036 DMT DO	XX
PohlCon	RG-BS 60-40E4 + DB-T 40EC	E90	$\approx 2 \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 400 \text{ mm}$ $g \approx 30 \text{ kg/m}$	P-1043 DMT DO	I
PohlCon	RG-BS 60-30E4 + DB-T 30EC	E90	$\approx 2 \times 2 \times \approx 0.8$	$a \approx 1500 \text{ mm}$ $b \approx 300 \text{ mm}$ $g \approx 15 \text{ kg/m}$	P-1043 DMT DO	II
PohlCon	Bügeschelle AC + KHA 8	E90	$\approx 2 \times 2 \times \approx 0.8$	$a \approx 800 \text{ mm}$	P-1043 DMT DO	VII
PohlCon	Bügeschelle AC + KHA 7	E90	$\approx 2 \times 2 \times \approx 0.8$	$a \approx 750 \text{ mm}$	P-1043 DMT DO	IX

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