

■ HDGsekwf(żo) PH90 300/500 V

Safety and halogen-free cables



TECHNICAL INFORMATION:

Power cable with single-wire copper conductors (D) with silicone rubber insulation (Gs) and halogen-free material sheath (H), with or without a green-yellow protective conductor (żo), in a common aluminium foil shield (ekwf).

CONSTRUCTION:

Conductors	copper single-wire class 1, to PN-EN 60228
Insulation	special ceramisation silicon
Insulation colour	HDGsekwf 2-conductor: blue, brown 3-conductor: black, brown, grey or blue, brown, black 4-conductor: blue, brown, black, grey 5-conductor: blue, brown, black, grey, black more than 5 conductors - in each layer: brown (metering conductor), blue (directional conductor) and other conductors - the same colours except for green-yellow, brown and blue HDGsekwf(żo) 3-conductor: green-yellow, blue, brown 4-conductor: yellow-green, black, brown, grey or yellow-green, blue, brown, black 5-conductor: green-yellow, blue, brown, black, grey more than 5 conductors - in the external layer: green-yellow (metering conductor), blue (directional conductor) and other conductors - the same colours except for green-yellow, brown and blue in other layers: brown (metering conductor), blue (directional conductor) and other conductors - the same colours except for green-yellow, brown and blue
Shield	aluminium-polyester tape with an earthing conductor (HDGsekwf, HDGsekwf(żo))
Sheath	special halogen-free, self-extinguishing, flame-retardant, red colour
Operating temperature	od -30°C do +80°C
Rated voltage	300/500 V
Bending radius	10 x conductor outer diameter
Application	halogen-free fire-resistant cables used in locations requiring equipment operation during fire; recommended for emergency illumination, smoke removal, signalling, DSO, control, fire signalling systems and fire-fighting automation systems as well as other systems ensuring safety in fire conditions; in fire conditions, such cables ensure correct operation of equipment for at least 90 minutes (PH90) and insulation durability for 180 minutes (FE180); no emission of toxic, suffocating gases and thick smoke during combustion; suitable for permanent installation inside buildings

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Test	resistance of a single cable to flame propagation (fire resistance): PN-EN 60332-1, IEC 60332-1, DIN-VDE 0482-332-1 cable installation function maintenance- E30: DIN-VDE 4102-12 insulation resistance to long-term fire impact (insulation durability) FE180: IEC 60331-11, IEC 60331-21, IEC 60331-31, DIN-VDE 0472-814 resistance of a cable bundle to flame propagation PN-EN 60332-3-24, IEC 60332-3, DIN-VDE 482-266-2 emission of corrosive gases during combustion: PN-EN 50267, IEC 60754-2, DIN-VDE 0472-813 emission of smoke density during combustion: PN-EN 61034-1(-2), IEC 61034-1(-2), DIN-VDE 0482-1034-2
Packing	coils, drums

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Conductor number and rated cross-section [n x mm ²]	Approximate external cable diameter [mm]	Approximate cable weight [kg/km]
2 x 1,0	7,1	63
2 x 1,5	7,9	78
2 x 2,5	9,5	115
2 x 4,0	10,4	150
3 x 1,0	7,5	79
3 x 1,5	8,3	99
3 x 2,5	10,0	148
3 x 4,0	11,2	203
4 x 1,0	8,4	100
4 x 1,5	9,5	132
4 x 2,5	11,2	190
4 x 4,0	12,3	256
5 x 1,0	9,1	125
5 x 1,5	10,2	161
5 x 2,5	12,0	235
5 x 4,0	13,3	318
7 x 1,0	9,9	154
7 x 1,5	11,3	203
7 x 2,5	13,1	293
10 x 1,0	12,4	214
10 x 1,5	14,0	279
10 x 2,5	17,0	430
12 x 1,0	12,8	244
12 x 1,5	14,4	320
12 x 2,5	17,5	494
14 x 1,0	13,4	276
14 x 1,5	15,1	371
14 x 2,5	18,4	589
16 x 1,0	14,2	313
16 x 1,5	16,5	438
16 x 2,5	20,0	668
19 x 1,0	14,8	375
19 x 1,5	17,4	520
19 x 2,5	21,0	758
20 x 1,0	16,2	408

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20 x 1,5	18,9	565
20 x 2,5	22,1	825
24 x 1,0	17,7	462
24 x 1,5	20,7	642
24 x 2,5	24,9	976
30 x 1,0	19,3	580
30 x 1,5	21,8	768
30 x 2,5	26,3	1173
37 x 1,0	20,7	689
37 x 1,5	24,1	918
37 x 2,5	28,3	1406

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