

HDHp-J(O) 300/500 V 450/750 V

halogen-free cables

STANDARD

NF-EP-86:2017



TECHNICAL INFORMATION:

Single-wire copper conductors (D) in halogen-free insulation (H) and in a halogen-free coating (H) flat (p) sheet with green-yellow protective conductor (J) or without a green-yellow protective conductor (O).

CONSTRUCTION:

Conductor	copper, single-wire, class. 1, acc. to standard PN-EN 60228
Insulation	special halogen-free polymer compound
Insulation colours	HDHp-O 2-conductor: blue, brown 3-conductor: brown, black, grey or blue, brown, black 4-conductor: blue, brown, black, grey 5-conductor: blue, brown, black, grey, black HDHp-J 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
Sheath	special halogen-free polymer compound, white colour
Operating temperature	-40°C to +70°C
Nominal voltage	300/500 V 450/750 V
Minimum bending radius	conductor outer diameter D [mm] 6xD
Permissible conductor operating temperature:	+70°C
Permissible conductor temperature during short circuit:	+160°C
Application	halogen-free power supply conductors for installations in facilities where human life and property must be protected against fire (hotels, hospitals, schools, airports, underground and train stations, industrial installations); conductors to be laid in dry and moist rooms, over and in plasterwork, in brick walls and directly in concrete; only permanent installation possible; in outdoor or underground installations cables must be laid in cable ducts or tubes
Packing	coils of length of 100 m and others, according to customer's wishes

Cable Factory ELPAR

Parczerw

ul. Laskowska 1, 21-200 Parczerw (Poland)

☎ + 48 83 355 03 38 ☎ + 48 83 355 18 88

✉ info@elpar.pl

Suwałki

ul. Szafrinowa 9, 16-400 Suwałki (Poland)

☎ + 48 87 565 41 30 ☎ + 48 87 565 41 50

✉ suwalki@elpar.pl

HDHp-J(O) 300/500 V		
Number and nominal cross-section of conductor [n x mm ²]	Approximate outer dimension of the conductor [mm]	Approximate cable mass [kg/km]
2 x 0,5	3,8 x 5,8	34
2 x 0,75	4,0 x 6,1	41
2 x 1	4,1 x 6,4	47
2 x 1,5	4,4 x 6,9	58
2 x 2,5	4,8 x 7,7	79
2 x 4	5,6 x 9,2	118
2 x 6	6,1 x 10,2	159
3 x 0,5	3,8 x 7,7	48
3 x 0,75	4,0 x 8,3	58
3 x 1	4,1 x 8,8	67
3 x 1,5	4,4 x 9,5	84
3 x 2,5	5,0 x 10,9	121
3 x 4	5,6 x 12,8	171
3 x 6	6,1 x 14,3	243
4 x 0,5	3,8 x 9,7	61
4 x 0,75	4,0 x 10,5	75
4 x 1	4,1 x 11,1	87
4 x 1,5	4,6 x 12,2	113
4 x 2,5	5,0 x 13,8	154
4 x 4	5,6 x 16,4	237
4 x 6	6,1 x 18,4	322

HDHp-J(O) 450/750 V		
Number and nominal cross-section of conductor [n x mm ²]	Approximate outer dimension of the conductor [mm]	Approximate cable mass [kg/km]
2 x 1	4,9 x 7,4	60
2 x 1,5	5,2 x 7,9	72
2 x 2,5	5,8 x 9,1	100
2 x 4	6,2 x 10,0	132
2 x 6	6,7 x 11,0	175
2 x 10	8,1 x 13,6	287
3 x 1	4,9 x 10,0	84
3 x 1,5	5,2 x 10,7	101
3 x 2,5	5,8 x 12,5	143
3 x 4	6,2 x 13,8	191
3 x 6	6,9 x 15,5	272
3 x 10	8,1 x 19,1	425
4 x 1	4,9 x 12,5	107
4 x 1,5	5,2 x 13,4	131
4 x 2,5	5,8 x 15,8	186
4 x 4	6,4 x 17,8	270
4 x 6	6,9 x 19,8	359
4 x 10	8,1 x 24,6	563
5 x 1	4,9 x 15,0	131
5 x 1,5	5,2 x 16,2	161
5 x 2,5	5,8 x 19,2	229
5 x 4	6,4 x 21,6	335
5 x 6	6,9 x 24,1	446
5 x 10	8,1 x 30,1	701

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