



Info

• <HAR>

#### Technical data



##### Classification

ETIM 5.0 Class-ID: EC000993

ETIM 5.0 Class-Description: Single core cable



##### Conductor stranding

Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228



##### Minimum bending radius

At a cable temperature of 20°C ± 10°C, according to HD 516  
OD ≤ 8 mm: 4 x OD\* / 2 x OD\*\* ; 8 < OD ≤ 12 mm: 5 x OD\* / 3 x OD\*\* ; OD > 12 mm: 6 x OD\* / 4 x OD\*\*



##### Nominal voltage

U<sub>0</sub>/U: 450/750 V



##### Test voltage

2500 V



##### Current rating

VDE 0298 Part 4  
HD 516/VDE 0298-300



##### Temperature range

Fixed installation:  
-30°C to +80°C  
Moved: +5°C to +70°C



**H07V-K**

European <HAR> cable type certification



#### Benefits

- Cables' <HAR>marking also stands for the international endorsement of national certification institutes' testing marks and certificates, e. g. <VDE><HAR>. The <HAR>marking is of special importance in case of goods traffic between European countries.

#### Application range

- Laying in tubes, exposed or buried in plaster, and in closed installation ducts
- For direct laying on racks, troughs and tubes only as potential equalisation conductor

#### Product features

- Flame-retardant according IEC 60332-1-2
- Spool: d1 = 18 mm; d2 = 200 mm; b = 85 mm

#### Norm references / Approvals

- <HAR> cable type certification acc. EN 50525-2-31

#### Product make-up

- Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228
- Core insulation: Based on PVC

Conductor cross-section (mm²)	Outer diameter (mm)	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	brown	black	grey	blue	green/yellow
1.5	3.4		150	14.4	22	4520031S	4520011S	4520061S	4520021S	4520001S
2.5	4.1		100	24.0	37	4520032S	4520012S	4520062S	4520022S	4520002S
1.5	3.4	100		14.4	22	4520031	4520011	4520061	4520021	4520001
2.5	4.1	100		24.0	37	4520032	4520012	4520062	4520022	4520002
4	4.8	100		38.4	45	4520033	4520013	4520063	4520023	4520003
6	5.3	100		57.6	71	4520034	4520014	4520064	4520024	4520004
10	6.8	100		96.0	120	4520035	4520015	4520065	4520025	4520005
16	8.1			153.6	187	4520036	4520016	4520066	4520026	4520006
25	10.2			240.0	290	4521031	4521011		4521021	4521001
35	11.7			336.0	399	4521032	4521012	4521062	4521022	4521002
50	13.9			480.0	559		4521013		4521023	4521003
70	16.0			672.0	776		4521014		4521024	4521004
95	18.2			912.0	1031		4521015		4521025	4521005
120	20.2			1,152.0	1285		4521016			4521006
150	22.5			1,440.0	1563		4521017			4521007
185	24.9			1,776.0	1915		4521018			4521008
240	28.4			2,304.0	2550		4521019			4521009

Conductor cross-section (mm²)	Outer diameter (mm)	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	orange	Dark blue	white	green	yellow
1.5	3.4		150	14.4	22		4520141S	4520051S		
2.5	4.1		100	24.0	37		4520142S			
1.5	3.4	100		14.4	22	4520091	4520141	4520051	4520121	4520111
2.5	4.1	100		24.0	37	4520092	4520142	4520052	4520122	4520112
4	4.8	100		38.4	45	4520093	4520143	4520053	4520123	4520113
6	5.3	100		57.6	71	4520094	4520144	4520054	4520124	4520114
10	6.8	100		96.0	120	4520095	4520145	4520055		
16	8.1			153.6	187	4520096	4520146	4520056	4520126	
25	10.2			240.0	290	4521091				
35	11.7			336.0	399	4521092				

Conductor cross-section (mm²)	Outer diameter (mm)	m/ring	m/spool	Copper index (kg/km)	Weight (kg/km)	violet	red	ultra-marine blue
1.5	3.4		150	14.4	22		4520041S	
2.5	4.1		100	24.0	37		4520042S	
1.5	3.4	100		14.4	22	4520071	4520041	4520161
2.5	4.1	100		24.0	37	4520072	4520042	4520162
4	4.8	100		38.4	45		4520043	4520163
6	5.3	100		57.6	71	4520074	4520044	4520164
10	6.8	100		96.0	120		4520045	
16	8.1			153.6	187		4520046	
25	10.2			240.0	290		4521041	
35	11.7			336.0	399		4521042	
50	13.9			480.0	559		4521043	
70	16.0			672.0	776		4521044	

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100kg. Refer to catalogue appendix T 17 for the definition and calculation of copper-related surcharges.

Packaging size: Coil ≤ 30 kg, otherwise drum

Photographs are not to scale and do not represent detailed images of the respective products.

\*for conventional use, \*\*for careful bending; "OD" = outer diameter

The outer diameters stated in the part number table are maximum values.