H07V-R

Standard: EN 50525-2-31

Design

1. Copper conductor - round, stranded class 2

2. PVC insulation

Application

Suitable for surface wiring, conduits, and internal wiring of devices and lighting. Ideal for fixed protected installations involving control and signal circuits.

Installation

To be installed by trained professionals only. Work must comply with relevant electrical standards and regulations.

Properties

Rated voltage Uo/U	0,45/0,75 kV
Test voltage	2,5 (AC) kV
Maximal short-circuit temperature	160 (≤300 mm²); 140 (>300 mm²) °C
Maximal operating conductor temperature	70 °C
Temperature range	from -30 *) up to 70 °C
Minimal temperature for laying and manipulation	5 °C
Minimal storage temperature	-30 °C
Colour of insulation	HD 308 S2
Colour of sheath	none

Self-extinguishing of one cable	IEC 60332-1-2
CPR-Classification	Eca
Packaging	drum, coil
Certificate	EZÚ, BBJ
RoHS	yes
REACH	yes
CE Conformity	yes
LVD Conformity	yes

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Technical data

No. of cores and cross-section mm²	Diameter (height) of conductor mm	Thickness - nominal insulation mm	Diameter informative mm	Weight informative kg/km	Minimal radius of bend mm	Max. effective resistance conductor at 20°C Ω/km	Current carrying capacity single cable in air *1 A	Max. permitted pulling force N
1x1,5	1,7	0,7	3,0	21	15	12,1	31	75
1x2,5	2,0	0,8	3,6	32	18	7,41	40	125
1x4	2,6	0,8	4,2	49	21	4,61	51	200
1x6	3,2	0,8	4,8	68	24	3,08	63	300
1x10	4,1	1,0	6,1	113	31	1,83	82	500
1x16	4,7	1,0	6,8	166	34	1,15	105	800
1x25	5,9	1,2	8,4	260	42	0,727	141	1250
1x35	7,0	1,2	9,5	352	48	0,524	174	1750
1x50	8,2	1,4	11	482	56	0,387	213	2500
1x70	10,0	1,4	13	677	65	0,268	271	3500
1x95	11,7	1,6	15	935	76	0,193	337	4750
1x120	13,2	1,6	17	1162	83	0,153	393	6000
1x150	14,6	1,8	18	1417	92	0,124	452	7500
1x185	16,4	2,0	21	1771	103	0,0991	522	9250
1x240	18,6	2,2	23	2312	116	0,0754	626	12000
1x300	21,1	2,4	26	2894	131	0,0601	730	15000
1x400	24,2	2,6	30	3688	148	0,0470	869	20000
1x500	27,3	2,8	33	4706	166	0,0366	1026	25000

*1 Air temperature: 30 °C

Note

*) Cable must not be mechanically stressed, if temperature drops below -15°C.