

H07V-R

PVC single core, stranded



TECHNICAL DATA

PVC single core acc. to DIN VDE 0285-525-2-31 / DIN EN 50525-2-31

Temperature range	flexible +5°C to +70°C fixed -30°C to +80°C
Nominal voltage	AC U ₀ /U 450/750 V
Test voltage	2500 V
Minimum bending radius	<8 mm: 4x Outer-ø 8-12 mm: 5x Outer-ø >12 mm: 6x Outer-ø

CABLE STRUCTURE

- Copper conductor bare, stranded acc. to DIN VDE 0295 Class 2 / IEC 60228 Class 2
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T11)
- Core identification: see table

PROPERTIES

- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

APPLICATION

Installation in electrical conduits, on or under plaster or similar enclosed systems. Suitable for protected and fixed installation in lighting systems or switching and control devices up to and including 1000 V AC voltage or up to 750 V DC voltage against earth. Not suitable for direct laying in cable ladders and cable trays, except as a potential equalization cable.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Ring (100m)

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 9003)	grey (RAL 7001)	purple (RAL 4005)
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
16	6	6.4 - 7.8	154.0	28825	28826	28827	28828	28829	28830	28831	28832
25	4	8.1 - 9.7	240.0	28833	28834	28835	28836	28837	-	-	-
35	2	9.0 - 10.9	336.0	28838	28839	28840	28841	28842	-	-	-
50	1	10.6 - 12.8	480.0	28843	28844	28845	28846	28847	-	-	-
70	2/0	12.1 - 14.6	672.0	28848	28849	28850	28851	28852	-	-	-
95	3/0	14.1 - 17.1	912.0	28853	28854	28855	28856	28857	-	-	-
120	4/0	15.6 - 18.8	1152.0	28858	28859	28860	28861	28862	-	-	-
150	300 kcmil	17.3 - 20.9	1440.0	28863	28864	28865	28866	28867	-	-	-
185	350 kcmil	19.3 - 23.3	1776.0	28868	28869	28870	28871	28872	-	-	-
240	500 kcmil	22.0 - 26.6	2304.0	28873	28874	28875	28876	28877	-	-	-

Drum (with varying capacity)

Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black (RAL 9005)	green-yellow	blue (RAL 5015)	brown (RAL 8003)	red (RAL 3000)	white (RAL 9003)	grey (RAL 7001)	purple (RAL 4005)
				Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	Part no.	
16	6	6.4 - 7.8	154.0	28185	28186	28187	28188	28189	28190	28191	28192
25	4	8.1 - 9.7	240.0	28193	28194	28195	28196	28197	-	-	-
35	2	9.0 - 10.9	336.0	28198	28199	28200	28201	28202	-	-	-
50	1	10.6 - 12.8	480.0	28203	28204	28205	28206	28207	-	-	-
70	2/0	12.1 - 14.6	672.0	28208	28209	28210	28211	28212	-	-	-
95	3/0	14.1 - 17.1	912.0	28213	28214	28215	28216	28217	-	-	-
120	4/0	15.6 - 18.8	1152.0	28218	28219	28220	28221	28222	-	-	-

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Cross-sec. mm ²	AWG, approx.	Outer-ø min - max mm	Cu-weight kg/km	black	green-yellow	blue	brown	red	white	grey	purple
				(RAL 9005) Part no.	Part no.	(RAL 5015) Part no.	(RAL 8003) Part no.	(RAL 3000) Part no.	(RAL 9003) Part no.	(RAL 7001) Part no.	(RAL 4005) Part no.
150	300 kcmil	17.3 - 20.9	1440.0	28223	28224	28225	28226	28227	-	-	-
185	350 kcmil	19.3 - 23.3	1776.0	28228	28229	28230	28231	28232	-	-	-
240	500 kcmil	22.0 - 26.6	2304.0	28233	28234	28235	28236	28237	-	-	-