

Flame-retardant PVC rigid single core cable

H07V-U (R)

CEI EN 50525-2-31

CEI UNEL 35747

EN 50525-2-31

Low voltage directive 2006/95/CE

RoHS 2011/65/CE directive

IEMMEQU ◁HAR▷



Construction features

Red copper single wire or rigid conductor; PVC insulation in TI1 quality.

Marking

Embossing on the insulator:

IRCE IEMMEQU ◁HAR▷ H07V-U(R) <section><year>

Application

Suitable for fixed installation in pipes or ducts or into illumination or inside of switching apparatuses and control up to 1000 V AC or 750 V DC to ground.
NOT SUITABLE FOR EXTERNAL LAYING

Warning

Capacities are calculated on a conductor of 3-4 cables with only 3 active conductors.



Nominal voltage:

$U_0/U = 450/750V$



Minimum bending radius:

6 x external diameter



Operating temperature:

70° C



Tractive effort in laying:

50 N/mm² of copper section maximum



Short circuit temperature:

160° C



Laying temperature:

5° C minimum

Number of cores and nominal cross sectional area n° x mm ²	Maximum wires diameter mm	Average Insulator thickness mm	Maximum external diameter mm	Cable approximate weight kg / km	Maximum resistance at 20° C Ohm / km	Current capacity at 30° C (A)	
						Open conduit	In air or pipe
1 x 1,5	1	0,70	3,20	19,8	12,1	17,5	15,5
1 x 1,5	7	0,70	3,20	21,0	12,1	17,5	15,5
1 x 2,5	1	0,80	3,90	30,6	7,41	24	21
1 x 2,5	7	0,80	3,90	33,0	7,41	24	21
1 x 4,0	1	0,80	4,40	45,0	4,61	32	28
1 x 4,0	7	0,80	4,40	48,0	4,61	32	28
1 x 6,0	1	0,80	5,00	65,0	3,08	41	36
1 x 10	1	1,00	6,40	107	1,83	57	50
1 x 6,0	7	0,80	5,20	67,9	3,08	41	36
1 x 10	7	1,00	6,70	113	1,83	57	50
1 x 16	7	1,00	7,80	171	1,15	76	68
1 x 25	7	1,20	9,70	268	0,727	101	89
1 x 35	7	1,20	10,9	363	0,524	125	111
1 x 50	19	1,40	12,8	483	0,387	151	134
1 x 70	19	1,40	14,6	691	0,268	192	171
1 x 95	19	1,60	17,1	954	0,193	232	207
1 x 120	37	1,60	18,8	1185	0,153	269	239
1 x 150	37	1,80	20,9	1425	0,124	309	275
1 x 240	61	2,20	26,6	2330	0,0754	415	369
1 x 300	61	2,40	29,6	2980	0,0601	447	411