

Flame-retardant PVC rigid single core cable

H05V-U

CEI EN 50525-2-31
 EN 50525-2-31
 Low voltage directive 2006/95/CE
 RoHS 2011/65/CE directive

IEMMEQU ◁ HAR ▷



Construction features

Red copper single wire conductor; PVC insulation in TI1 quality

Marking

Embossing on the insulator
 IRCE IEMMEQU ◁ HAR ▷ H05V-U <section><year>

Application

Suitable for fixed laying inside the equipments (also lighting equipments), the pipes and the surface-mounted or embedded conduits, only for notification and control circuits.

Not suitable for external laying.

Warning

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



Nominal voltage:
 $U_0/U = 300/500V$



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) in air or pipe |
|--|------------------------------|-----------------------------------|---------------------------------|-------------------------------------|---|--|
| 1 x 0,50 | 0,90 | 0,60 | 2,30 | 8,1 | 36,00 | 3,0 |
| 1 x 0,75 | 1,00 | 0,60 | 2,50 | 10,9 | 24,50 | 6,0 |
| 1 x 1,00 | 1,10 | 0,60 | 2,70 | 13,6 | 18,10 | 10,0 |