

Fire-retardant PVC flexible single core cable with reduced emission of corrosive gases

N07V-K

CEI 20-20
 CEI 20-22/2
 CEI 20-37/4 EN 50267-2-1
 CEI UNEL 357523
 Low voltage directive 2006/95/CE
 RoHS 2011/65/CE directive



Construction features

Red copper flexible conductor; PVC insulation in R2 quality.

Marking

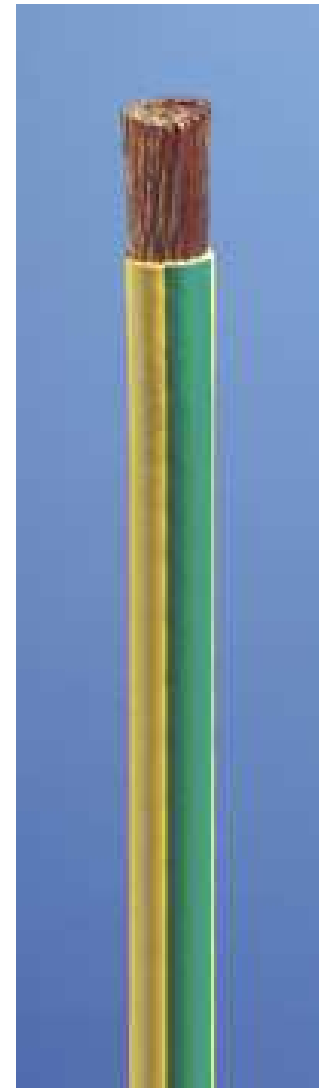
Embossing on the insulator: IRCE IEMMEQU CEI 20-22 II
 FIRE-RETARDANT N07V-K <section><year>

Application

For systems for which the IEC 64-2 requires the use of fire retardant cables. 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. The cross section of 1 mm² is used only for internal wiring of electrical circuits or for elevators and hoists.
 NOT SUITABLE FOR EXTERNAL LAYING

Warning

(*) For installations at risk of fire, maximum operating temperature of 55 ° C and a temperature of maximum short-circuit 140 ° C. The flow rates are proportionately reduced and are obtained by multiplying by 0.8 the values of the table.
 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:
 4 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 1,0	0,21	0,70	3,00	14,4	19,5	-	10
1 x 1,5	0,26	0,70	3,40	19,1	13,3	-	15,5
1 x 2,5	0,26	0,80	4,10	30,2	7,98	-	21
1 x 4,0	0,31	0,80	4,80	44,3	4,95	-	28
1 x 6,0	0,31	0,80	5,30	62,0	3,30	-	36
1 x 10	0,41	1,00	6,80	105	1,91	57	50
1 x 16	0,41	1,00	8,70	158	1,21	76	68
1 x 25	0,41	1,20	10,2	246	0,780	101	89
1 x 35	0,41	1,20	11,7	337	0,554	125	111
1 x 50	0,41	1,40	13,9	480	0,386	150	134
1 x 70	0,51	1,40	16,0	695	0,272	192	171
1 x 95	0,51	1,60	18,2	920	0,206	231	207
1 x 120	0,51	1,60	20,2	1140	0,161	269	240
1 x 150	0,51	1,80	22,5	1435	0,129	310	276
1 x 185	0,51	2,00	24,9	1750	0,106	353	315
1 x 240	0,51	2,20	28,4	2280	0,0801	415	369