

Fire-retardant elastomer cross-linked flexible single core cable without emission of corrosive gases

N07G9-K

CEI 20-38
CEI 20-22/2
CEI 20-37/4 EN 61034-2 EN 50267-2-1
CEI UNEL 35368
Low voltage directive 2006/95/CE
RoHS 2011/65/CE directive



Construction features

Red copper flexible conductor; elastomer cross-linked insulation in G9 quality.

Marking

Stamp with special ink:
 IEMMEQU CEI 20-22 II CEI 20-38 N07G9-K IRCE CABLES <section><year>

Application

Ambienti a rischio in caso d'incendio, ove sia fondamentale garantire la MASSIMA SICUREZZA alle persone come: scuole, uffici, metropolitane, teatri, discoteche, cinema, alberghi, supermercati, ecc. Adatti per posa fissa entro tubazioni o canalette o entro apparecchi di illuminazione o all'interno di apparecchiature di interruzione e comando sino a 1000 V in corrente alternata o a 750 V in corrente continua verso terra.
 NOT SUITABLE FOR EXTERNAL LAYING

Warning

(*) Per installazioni a rischio d'incendio, temperatura d'esercizio massima 70° C. Le portate risultano conseguentemente ridotte e si ottengono moltiplicando per 0,8 i valori della tabella.

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:

90° C (*)



Tractive effort in laying:

50 N/mm² of copper section maximum



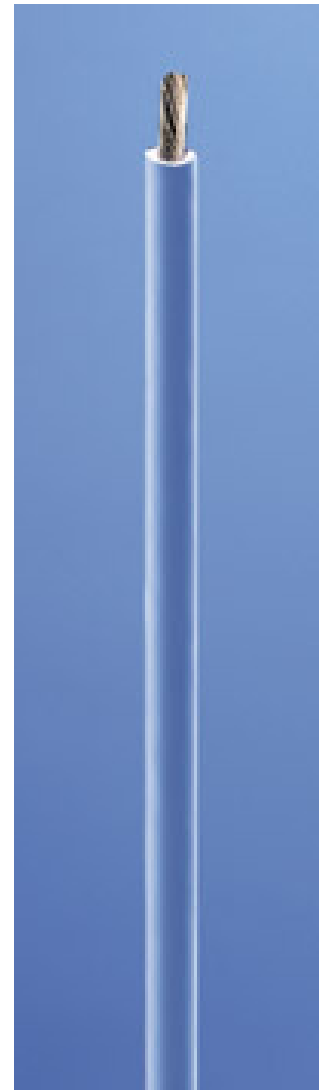
Short circuit temperature:

250° C (*)



Laying maximum:

-15° C minimum



| Number of cores and nominal cross sectional area n° x mm ² | Conductor maximum Diameter mm | Insulator medium 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 | 17 | 15 |
| 1 x 1,5 | 0,26 | 0,70 | 3,40 | 19,1 | 13,3 | 22 | 19,5 |
| 1 x 2,5 | 0,26 | 0,80 | 4,10 | 30,3 | 7,98 | 30 | 26 |
| 1 x 4,0 | 0,31 | 0,80 | 4,80 | 44,4 | 4,95 | 40 | 35 |
| 1 x 6,0 | 0,31 | 0,80 | 5,30 | 62,0 | 3,30 | 52 | 46 |
| 1 x 10 | 0,41 | 1,00 | 6,80 | 105 | 1,91 | 71 | 63 |
| 1 x 16 | 0,41 | 1,00 | 8,70 | 158 | 1,21 | 96 | 85 |
| 1 x 25 | 0,41 | 1,20 | 10,2 | 246 | 0,780 | 127 | 112 |
| 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 | 190 | 168 |
| 1 x 70 | 0,51 | 1,40 | 16,0 | 695 | 0,272 | 242 | 213 |
| 1 x 95 | 0,51 | 1,60 | 18,2 | 920 | 0,206 | 293 | 258 |
| 1 x 120 | 0,51 | 1,60 | 20,2 | 1140 | 0,161 | 338 | 300 |
| 1 x 150 | 0,51 | 1,80 | 22,5 | 1420 | 0,129 | 390 | 345 |
| 1 x 185 | 0,51 | 2,00 | 24,5 | 1750 | 0,106 | 440 | 390 |
| 1 x 240 | 0,51 | 2,20 | 28,4 | 2260 | 0,0801 | 520 | 460 |