

FR-N1X1G1 0,6/1kV

[F]Cca-s1b,d1,a1

Model Product: 387-388 - 20250115

general
CAVI s.p.a.

Rigid wire red copper conductor class 1 (section $\leq 4 \text{ mm}^2$)
Stranded circular compacted copper conductors class 2
(section $>4 \text{ mm}^2$)

XLPE Crosslinked polyethylene insulation (no dry cool).
halogen free
LSZH sheath.

STANDARDS

NF C32-323 C32-323/A1 NF C 32-070 C1 NF C32-070 C2
IEC 61034 EN 50575:2014 + EN 50575/A1:2016 NF C
15-100

Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 3)

COMMON FEATURES

Cables for indoor installation (in according with standard NF) and for use on industrial sites too. and the upright columns of buildings. They can be fixed to walls without protection if conditions permit; in other cases, the cables will be protected in their path in horizontal and vertical. If the cables during their operation are subject to solar radiation, it is best to protect them. They can be buried in short lengths unsaturated water terrain with the appropriate mechanical protections. Can be laid underground with mechanical protection constructed from slabs, tiles, or bricks. It is not recommend to lay this cable in ground flooded for more than two months per year. With appropriate mechanical protection it can be use in areas subject to risk of explosion, but in this case the permitted current load is reduced by 15%. It can be used in ambient temperatures down to -25°C . Supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke. Particular characteristics: AD6 NF C15-100 (AD7). -AN 2 sun light. UV resistant according to EN 50289-4-17 method A (720h)
AF 3 Corrosion

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm): 6D
Maximum pulling stress: 5 kg/mm^2 (of copper cross section)

POWER CABLES INSULATED IN CROSSLINKED
POLYETHYLENE
UNDER HALOGEN FREE SHEATH WITH RIGID RED COPPER
CONDUCTOR

Nominal voltage U_0 : 600 V

Nominal voltage U: 1000 V

Test voltage: 4000 V

Maximun voltage U_m : 1200 V

Maximun operating temperature: $+90^\circ\text{C}$

Maximun short circuit temperature: $+250^\circ\text{C}$

Minimum installation and laying temperature: -10°C

Min. operating temperature (without mechanical shocks): -25°C

CORE COLOURS

Two cores: blue-brown

Three cores: blue-brown-y/g
brown-black-blue ($1,5/2,5 \text{ mm}^2$) ($\geq 4 \text{ mm}^2$) brown-black-gray

Four cores: blue-brown-black-gray (or Y/G instead blue)

Five cores: Y/G-blue-brown-black-gray (or black instead Y/G)

Multicores: black with numbers + Y/G

SHEATH COLOUR

Green

MARKING ENGRAVING

METER YEAR GENERAL CAVI Cca-s1b,d1,a1 NF-USE 1325 NF C 32-323
FRN1X1G1 FORM. x SEZ. BATCH

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| Cores number | Cross section | Approx cond. diameter | Insulation medium thickness | Minimum sheath thickness | Maximum external diameter | Electric resistance at 20°C | Approx cable weight | Current carrying air free | Current carrying buried |
|--------------|---------------|-----------------------|-----------------------------|--------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-------------------------|
| (N°) | (mmq) | (mm) | (mm) | (mm) | (mm) | (Ohm/km) | (kg/km) | (A) | (A) |
| Single core | | | | | | | | | |
| 1x | 4 | 2.25 | 0.7 | 1.09 | 7.6 | 4.61 | 75 | 45 | 59 |
| 1x | 6 | 3.05 | 0.7 | 1.09 | 8.2 | 3.08 | 100 | 58 | 74 |
| 1x | 10 | 3.8 | 0.7 | 1.09 | 9.2 | 1.83 | 140 | 80 | 101 |
| 1x | 16 | 4.7 | 0.7 | 1.09 | 10.5 | 1.15 | 205 | 107 | 128 |
| 1x | 25 | 5.9 | 0.9 | 1.09 | 12.5 | 0.727 | 315 | 138 | 144 |
| 1x | 35 | 7.1 | 0.9 | 1.09 | 13.5 | 0.524 | 400 | 169 | 174 |
| 1x | 50 | 8.0 | 1.0 | 1.09 | 15.0 | 0.387 | 530 | 207 | 206 |
| 1x | 70 | 9.6 | 1.1 | 1.09 | 17.0 | 0.268 | 725 | 268 | 254 |
| 1x | 95 | 11.4 | 1.1 | 1.18 | 19.0 | 0.193 | 985 | 328 | 301 |
| 1x | 120 | 13.1 | 1.2 | 1.18 | 19.0 | 0.153 | 1260 | 382 | 343 |
| 1x | 150 | 14.6 | 1.4 | 1.26 | 23.0 | 0.124 | 1520 | - | 350 |
| 1x | 185 | 16.5 | 1.6 | 1.26 | 25.5 | 0.0991 | 1940 | - | 360 |
| 1x | 240 | 18.4 | 1.7 | 1.43 | 28.5 | 0.0754 | 2310 | - | 390 |
| 1x | 300 | 21.1 | 1.8 | 1.52 | 31.0 | 0.0601 | 3200 | - | 420 |
| 1x | 400 | 23.8 | 1.9 | 1.60 | 34-5 | 0.0470 | 4000 | - | 480 |
| 1x | 500 | 26.8 | 2.0 | 1.77 | 38.5 | 0.0366 | 5000 | - | 550 |
| 1x | 630 | 31.5 | 2.2 | 1.94 | 43.0 | 0.0283 | 6500 | - | 630 |
| Two cores | | | | | | | | | |
| 2x | 1.5 | 1.4 | 0.7 | 1.43 | 10.5 | 12.1 | 115 | 26 | 37 |
| 2x | 2.5 | 1.8 | 0.7 | 1.43 | 11.5 | 7.41 | 145 | 36 | 48 |
| 2x | 4 | 2.25 | 0.7 | 1.43 | 13.0 | 4.61 | 195 | 49 | 63 |
| 2x | 6 | 3.05 | 0.7 | 1.43 | 14.0 | 3.08 | 265 | 63 | 80 |
| 2x | 10 | 3.8 | 0.7 | 1.43 | 16.0 | 1.83 | 390 | 86 | 104 |
| 2x | 16 | 4.7 | 0.7 | 1.43 | 18.5 | 1.15 | 560 | 115 | 136 |
| 2x | 25 | 5.9 | 0.9 | 1.43 | 22.0 | 0.727 | 850 | 149 | 173 |
| 2x | 35 | 7.1 | 0.9 | 1.43 | 24.5 | 0.524 | 1080 | 185 | 208 |
| Three cores | | | | | | | | | |
| 3x | 1.5 | 1.4 | 0.7 | 1.43 | 11.0 | 12.1 | 130 | 23 | 31 |
| 3x | 2.5 | 1.8 | 0.7 | 1.43 | 12.5 | 7.41 | 170 | 31 | 41 |
| 3x | 4 | 2.25 | 0.7 | 1.43 | 13.5 | 4.61 | 230 | 42 | 53 |
| 3x | 6 | 3.05 | 0.7 | 1.43 | 15.0 | 3.08 | 325 | 54 | 66 |
| 3x | 10 | 3.8 | 0.7 | 1.43 | 17.0 | 1.83 | 485 | 75 | 87 |
| 3x | 16 | 4.7 | 0.7 | 1.43 | 19.5 | 1.15 | 705 | 100 | 113 |
| 3x | 25 | 5.9 | 0.9 | 1.43 | 23.5 | 0.727 | 1080 | 127 | 144 |
| 3x | 35 | 7.1 | 0.9 | 1.43 | 26.0 | 0.524 | 1390 | 158 | 174 |

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| Cores number | Cross section | Approx cond. diameter | Insulation medium thickness | Minimum sheath thickness | Maximum external diameter | Electric resistance at 20°C | Approx cable weight | Current carrying air free | Current carrying buried |
|--------------|---------------|-----------------------|-----------------------------|--------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-------------------------|
| (N°) | (mmq) | (mm) | (mm) | (mm) | (mm) | (Ohm/km) | (kg/km) | (A) | (A) |
| 3x | 50 | 8.0 | 1.0 | 1.43 | 29.0 | 0.387 | 1840 | 192 | 206 |
| 3x | 70 | 9.6 | 1.1 | 1.52 | 34.0 | 0.268 | 2540 | 246 | 254 |
| 3x | 95 | 11.4 | 1.1 | 1.60 | 38.5 | 0.193 | 3430 | 298 | 301 |
| 3x | 120 | 13.1 | 1.2 | 1.69 | 42.5 | 0.153 | 4440 | 346 | 343 |
| 3x | 150 | 14.6 | 1.4 | 1.86 | 47.5 | 0.124 | 5380 | - | 350 |
| 3x | 185 | 16.5 | 1.6 | 1.94 | 53.0 | 0.0991 | 6920 | - | 360 |
| 3x | 240 | 18.4 | 1.7 | 2.11 | 59.5 | 0.0754 | 8420 | - | 390 |
| 3x | 300 | 21.1 | 1.8 | 2.28 | 66.0 | 0.0601 | 11300 | - | 420 |
| Four cores | | | | | | | | | |
| 4x | 1.5 | 1.4 | 0.7 | 1.43 | 12.0 | 12.1 | 160 | 23 | 31 |
| 4x | 2.5 | 1.8 | 0.7 | 1.43 | 13.0 | 7.41 | 205 | 31 | 41 |
| 4x | 4 | 2.25 | 0.7 | 1.43 | 14.5 | 4.61 | 280 | 42 | 53 |
| 4x | 6 | 3.05 | 0.7 | 1.43 | 16.0 | 3.08 | 390 | 54 | 66 |
| 4x | 10 | 3.8 | 0.7 | 1.43 | 18.5 | 1.83 | 590 | 75 | 87 |
| 4x | 16 | 4.7 | 0.7 | 1.43 | 21.0 | 1.15 | 900 | 100 | 113 |
| 4x | 25 | 5.9 | 0.9 | 1.43 | 25.5 | 0.727 | 1415 | 127 | 144 |
| 4x | 35 | 7.1 | 0.9 | 1.43 | 28.5 | 0.524 | 1850 | 158 | 174 |
| 4x | 50 | 8.0 | 1.0 | 1.52 | 32.5 | 0.387 | 2460 | 192 | 206 |
| 4x | 70 | 9.6 | 1.1 | 1.60 | 37.5 | 0.268 | 3445 | 246 | 254 |
| 4x | 95 | 11.4 | 1.1 | 1.69 | 42.5 | 0.193 | 4700 | 298 | 301 |
| 4x | 120 | 13.1 | 1.2 | 1.69 | 47.5 | 0.153 | 6070 | 346 | 343 |
| 4x | 150 | 14.6 | 1.4 | 1.94 | 52.5 | 0.124 | 7950 | - | 350 |
| 4x | 185 | 16.5 | 1.6 | 2.11 | 59.0 | 0.0991 | 10050 | - | 360 |
| 4x | 240 | 18.4 | 1.7 | 2.28 | 66.5 | 0.0754 | 12750 | - | 390 |
| 4x | 300 | 21.1 | 1.8 | 2.45 | 73.5 | 0.0601 | 15800 | - | 420 |
| 3x50+1x35 | | 8.0 | 1.0 | 1.52 | 31.1 | 0.387 | 2160 | 192 | 206 |
| 3x70+1x50 | | 9.6 | 1.1 | 1.60 | 36.2 | 0.268 | 3010 | 246 | 254 |
| 3x95+1x50 | | 11.4 | 1.1 | 1.69 | 40.6 | 0.193 | 3960 | 298 | 301 |
| 3x120+1x70 | | 13.1 | 1.2 | 1.86 | 45.4 | 0.153 | 5160 | 346 | 343 |
| 3x150+1x70 | | 14.6 | 1.4 | 1.86 | 49.5 | 0.124 | 6850 | - | 350 |
| 3x185+1x70 | | 16.5 | 1.6 | 2.03 | 54.4 | 0.0991 | 8550 | - | 360 |
| 3x240+1x95 | | 18.4 | 1.7 | 2.20 | 61.5 | 0.0754 | 10900 | - | 390 |
| Five cores | | | | | | | | | |
| 5x | 1.5 | 1.4 | 0.7 | 1.43 | 13.0 | 12.1 | 180 | 23 | 31 |
| 5x | 2.5 | 1.8 | 0.7 | 1.43 | 14.5 | 7.41 | 240 | 31 | 41 |
| 5x | 4 | 2.25 | 0.7 | 1.43 | 16.0 | 4.61 | 335 | 42 | 53 |

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|--------------|---------------|-----------------------|-----------------------------|--------------------------|---------------------------|-----------------------------|---------------------|---------------------------|-------------------------|
| (N°) | (mmq) | (mm) | (mm) | (mm) | (mm) | (Ohm/km) | (kg/km) | (A) | (A) |
| 5x | 6 | 3.05 | 0.7 | 1.43 | 17.5 | 3.08 | 475 | 54 | 66 |
| 5x | 10 | 3.8 | 0.7 | 1.43 | 20.0 | 1.83 | 720 | 75 | 87 |
| 5x | 16 | 4.7 | 0.7 | 1.43 | 23.0 | 1.15 | 1060 | 100 | 113 |
| 5x | 25 | 5.9 | 0.9 | 1.43 | 28.0 | 0.727 | 1645 | 127 | 144 |
| 5x | 35 | 7.1 | 0.9 | 1.43 | 31.0 | 0.524 | 2250 | 158 | 174 |
| 5x | 50 | 8.1 | 1.0 | 1.43 | 34.5 | 0.387 | 2950 | 192 | 206 |
| 5x | 70 | 9.7 | 1.1 | 1.43 | 41.5 | 0.268 | 4300 | 246 | 254 |
| 5x | 95 | 11.4 | 1.1 | 1.43 | 46.5 | 0.193 | 5710 | 298 | 301 |
| Multicores | | | | | | | | | |
| 7x | 1.5 | 1.4 | 0.7 | 1.43 | 13.5 | 12.1 | 220 | 18 | - |
| 7x | 2.5 | 1.8 | 0.7 | 1.43 | 15.0 | 7.41 | 310 | 23 | - |
| 10x | 1.5 | 1.4 | 0.7 | 1.43 | 16.5 | 12.1 | 310 | 16 | - |
| 10x | 2.5 | 1.8 | 0.7 | 1.43 | 19.0 | 7.41 | 440 | 22 | - |
| 12x | 1.5 | 1.4 | 0.7 | 1.43 | 17.0 | 12.1 | 370 | 14 | - |
| 12x | 2.5 | 1.8 | 0.7 | 1.43 | 19.5 | 7.41 | 525 | 20 | - |
| 14x | 1.5 | 1.4 | 0.7 | 1.43 | 18.0 | 12.1 | 430 | 14 | - |
| 14x | 2.5 | 1.8 | 0.7 | 1.43 | 20.5 | 7.41 | 610 | 20 | - |
| 19x | 1.5 | 1.4 | 0.7 | 1.43 | 19.5 | 12.1 | 560 | 13 | - |
| 19x | 2.5 | 1.8 | 0.7 | 1.43 | 22.5 | 7.41 | 745 | 18 | - |
| 24x | 1.5 | 1.4 | 0.7 | 1.43 | 22.5 | 12.1 | 710 | 12 | - |
| 24x | 2.5 | 1.8 | 0.7 | 1.43 | 25.5 | 7.41 | 1000 | 16 | - |