Italian Cable Company s.p.A.
Unico azionista Lebogest S.p.A
UNI EN ISO 9001-9125.ICC1
Cap. Soc. €uro 5.900.000 i.v. - CCIAA REA BG n. 280471 - Reg. Imp. BG 48525 - COD. ISO IT / P.I. / Cod. F. 02325450167
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# WELDING CABLE H01N2-D

CAVI UNIPOLARI FLESSIBILISSIMI SOTTO GUAINA DI GOMMA PER SALDATRICI AD ARCO.

*HIGLY FLEXIBLE SINGLE CORE CABLES,UNDER RUBBER SHEATH FOR ARC WELDING MACHINES*




| | |
|---|---|
| 1- Corda Flessibilissima di rame rosso o stagnato<br>2- Nastro di carta o sintetico<br>3- Mescola elastomerica di tipo EM5 | 1- Extra flexible plain or tin plated copper rope<br>2- Paper or synthetic tape<br>3- Rubber compound type EM5 |

| **Standard** | **Approvals** | **Packaging** | |
|---|---|---|---|
| CEI 20-19/6<br>HD 22<br>EN 50525-2-81 RoHS compliant | HAR | | CE |

| **Marcatura /Marks** |
|---|
| **H01N2-D "size" mm$^2$ IEMMEQU <HAR>**<br>(Con filo identificativo ICC / with ICC indentification thread ) |

| **CARATTERISTICHE** | | **CHARACTERISTICS** | |
|---|---|---|---|
| Impiego:<br>Cavi indicati per il collegamento mobile di saldatrici e pinze porta elettrodo. Per tensioni fino a 100 Vc.a e 200 V c.c. | | Applications:<br>Cable suitable for the connection between welding machine and electrode horlders. Suitable for rated operating voltage up to 100 V a.c, to 200 V d.c. | |
| Colore guaina: | Nero, altri colori su richiesta | Sheath Colour: | Black, other colours in request |
| Temperature di esercizio: | -20°C ÷ 85°C sul conduttore | Operating temperature: | -20°C ÷ 85°C on the conductor |
| Temperatura minima di esercizio | Posa Fissa: -40°C | Min operating temperature: | Fixed installation: -40°C |
| Temp. Min. di installazione: | -20°C | Min. installation temperature: | -20°C |
| Temperature di cortocircuito: | 250°C sul conduttore (durata max 5 sec) | Short circuit temperature: | 250°C on the conductor (Max duration 5 sec.) |
| Tensione nominale: | Uo/U c.a. 100/100 V | Rated voltage: | Uo/U a.c. 100/100 V |
| | Uo/U c.c. 200/200 V | | Uo/U d.c. 200/200 V |
| Temp. max di corto circuito: | 250°C sul conduttore (durata max. 5 secondi) | Max. temperature in case of short circuit: | 250° C on the conductor (max duration 5 seconds) |
| Raggio min di curvatura: | 4 x diametro esterno del cavo | Min. bending radius: | 4 x outer diameter of the cable |
| Massimo sforzo di tiro durante la posa: | 50 N/mm$^2$ | Max laying stress during installation: | 50 N/mm$^2$ |

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| **Nominal size**<br><br>**Sezione nominale** | **Nominal copper construction**<br><br>**Formazione Nominale conduttore** | **Insulation thickness**<br><br>**Spessore isolamento** | **Outer cable diameter**<br><br>**Diametro cavo** | **Max cond. resistance at 20° C**<br><br>**Resistenza elettrica del conduttore a 20°C** | | **Indicative cable weight**<br><br>**Peso indicativo cavo** |
|---|---|---|---|---|---|---|
| ***mm²*** | ***mm*** | ***mm*** | ***mm*** | ***Ohm/Km*** | | ***Kg/Km*** |
| | | | | ***bare*** | ***tinned*** | |
| 1X10 | 288 x 0.2 | 2.0 | 8.4 | 1.91 | 1.95 | 155 |
| 1X16 | 448 x 0.2 | 2.0 | 9.3 | 1.21 | 1.24 | 215 |
| 1X25 | 696 x 0.2 | 2.0 | 10.6 | 0.780 | 0.795 | 305 |
| 1X35 | 976 x 0.2 | 2.0 | 11.9 | 0.554 | 0.565 | 410 |
| 1X50 | 1392 x 0.2 | 2.2 | 13.7 | 0.386 | 0.393 | 550 |
| 1X70 | 1992 x 0.2 | 2.4 | 16.3 | 0.272 | 0.277 | 780 |
| 1X95 | 2640 x 0.2 | 2.6 | 18.5 | 0.206 | 0.210 | 1020 |
| 1X120 | 576x0,5 | 2.8 | 19.6 | 0.161 | 0.164 | 1280 |
| 1X150 | 708x0,5 | 3.0 | 21.5 | 0.129 | 0.132 | 1600 |
| 1X185 | 868x0,5 | 3.2 | 23.5 | 0.106 | 0.108 | 1950 |

H01N2-D CABLES – Current rating (HD 516)

Current rating for Single Cycle operation over a maximum period of five minutes

| *Nominal cross sectional area mm²* | *Current Rating for specified percentage Duty cycle* | | | |
|---|---|---|---|---|
| | *100%* | *85%* | *60%* | *35%* |
| 10 | 100 A | 103 A | 108 A | 122 A |
| 16 | 135 A | 145 A | 175 A | 230 A |
| 25 | 180 A | 195 A | 230 A | 300 A |
| 35 | 225 A | 245 A | 290 A | 375 A |
| 50 | 285 A | 305 A | 365 A | 480 A |
| 70 | 355 A | 385 A | 460 A | 600 A |
| 95 | 430 A | 470 A | 560 A | 730 A |
| 120 | 500 A | 540 A | 650 A | 850 A |

This current rating for arc-welding cables, are calculated for sustained currents, 100% duty cycles, using the methods given in IEC Publication 287, for cables in free air at an ambient temperature of 25°C, and a conductor temperature of 85°C.

Single cycle operation is defined as a single on-load period not exceeding five minutes. The on-load time period is espressed as a percentage of five minutes, and is called the percentage duty cycle. For percentage duty cycles not stated in the table, the next higher percentage duty cycle rating should be used.

When the ambient temperature differs from 25°C, the rating should be corrected by multiplying it by appropriate factor shown below:

| | | | | |
|---|---|---|---|---|
| Ambient temperature °C | 30 | 35 | 40 | 45 |
| Factor | 0.96 | 0.91 | 0.87 | 0.82 |