H01N2-D EN 50525-2-81 Welding Cable - 10mm² to 150mm²



Description

H01N2-D EN 50525-2-81 welding cable is a heavy-duty, flexible single-core cable designed for high-current applications in demanding industrial environments. Manufactured with class 6 extra-fine copper conductors and a durable polychloroprene or equivalent synthetic rubber sheath, it offers excellent flexibility, abrasion resistance and resistance to oils, chemicals, ozone and UV exposure. Suitable for welding equipment, industrial machinery, construction and other applications requiring a robust, highly flexible power connection.

Key Features

Voltage Rating
100 Volts

Minimum Bending Radius
6 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Fixed: -40°C to +85°C
Flexing: -20°C to +85°C

Standards

- BS EN 50525-2-81
- BS EN/IEC 60228
- BS EN/IEC 60332-1-2

Construction

- **Conductor**: Class 6 extra flexible copper
- **Separator**: Polyester Tape (PET)
- **Outer Sheath**: Rubber Compound
- **Sheath Colour**: Red or Black

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory
31196

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

CLEVELAND CABLE COMPANY

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

H01N2-D EN 50525-2-81 Welding Cable - 10mm² to 150mm² - Dimensions

Reference	Conductor Size (mm2)	Insulation Thickness (mm)	Overall Diameter(mm)	Weight(Kg/Km)
H01N2D1X10	10	2.00	9.00	150
H01N2D1X16	16	2.00	10.10	205
H01N2D1X25	25	2.00	11.50	285
H01N2D1X35	35	2.00	12.50	385
H01N2D1X50	50	2.20	14.40	535
H01N2D1X70	70	2.40	16.30	720
H01N2D1X95	95	2.60	18.50	940
H01N2D1X120	120	2.80	20.40	1240
H01N2D1X150	150	3.00	22.70	1570

Ampacity Ratings by Duty Cycle

The table below provides guiding current ratings (in Amperes) based on standard duty cycles at an ambient temperature of 25°C.

Conductor Size (mm^2)	100% (Continuous)	85% (Semi-Auto)	60% (Manual)	35% (Intermittent)
10	100A	103A	108A	122A
16	135A	145A	175A	230A
25	180A	195A	230A	300A
35	225A	245A	290A	375A
50	285A	305A	365A	480A
70	355A	385A	460A	600A
95	430A	470A	560A	730A
120	500A	540A	650A	850A
150	580A	630A	750A	980A
185	660A	720A	860A	1120A

Ambient Temperature De-rating Factors

To find the adjusted ampacity, multiply the standard rating from the previous table by the corresponding factor below:

Ambient Air Temperature (°C)	De-rating Factor
25°C	1
30°C	0.96
35°C	0.91
40°C	0.87
45°C	0.82
50°C	0.76
55°C	0.71

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.