

## H01N2-D EXTRA FLEXIBLE COPPER WELDING CABLE

### Welding Cable Structure

generally conforms to, Based on CENELEC HD 22-6, DIN VDE 0282, IEC 245-6, BS 638-4

#### Conductor:

Extra-fine class 5 conductor for H01N2-D conforms to IEC 60228, DIN VDE 0295

#### Separation:

Polyester tape (25 to 30) Micron

#### Outer Sheath:

HOFR Sheath, black and oil resistant

\*Any other Color on specific request can also be supplied

### Welding Cable Technical Data

**Fixed installation** : -30°C to max. + 90°C

**Nominal voltage** : 100/100 V

**Test voltage** : 1000 V

**Mechanical properties** : Tensile strength = 10 N/mm<sup>2</sup> Min.  
Elongation = 300 Min.

**Min. bending radius** : 4 x cable diameter

**Flame propagation** : Flame retardant test  
as per IEC 60332-1

### Welding Cable features

- Ultra high performance flexible welding lead, double insulated for longer life and added safety
- Excellent flexibility to last longer in flex applications
- RoHS Compliant
- Based on CENELEC HD 22-6 31, VDE 0282, IEC 245-6, IS 473, BS 638-4
- Outstanding toughness & durability
- High resistance to cuts, tears & abrasion
- Resistance to oil, solvents and chemicals
- Excellent ozone and weather resistant

### Welding Cable Application

H01N2-D

H01N2-D Designed for the secondary (high current) connection to automatic or hand - held metal arc welding electrodes. It is suitable for flexible use under rugged conditions, on assembly lines and conveyor systems, in machine tool and automatically operated line and spot welding machines.

Standard length cable packing:

Coils 100, 200, 300 and 500 m. in wooden reels

### Technical Data Table

#### Current Rating :

The maximum current ratings of flexible welding cables for different duty cycles are based on an ambient air temperature of 25°C and a maximum conductor temperature of 90°C. The percentage duty cycles for various processes and applications are as follows:

- Automobile Welding : up to 100%
- Semi-automatic Welding : 30% to 85%
- Manual Welding : 0% to 60%
- Very intermittent or Occasional Welding : up to 20%

#### Voltage Drop :

When total cable lengths in excess of 15 mtrs., are involved, it may be necessary to use cables of larger cross section to ensure that the voltage drop is not excessive and welding currents are maintained at adequate levels.

## TECHNICAL INFORMATION

Cross Sectional Area	Copper Construction	Nominal Thickness	Outer Dia Appx.	Max. Conductor Resistance at 20° C	Current rating					
					Welding applications					
					Duty Cycle					
					100%	85%	80%	60%	35%	20%
Sq.mm	Nos. X Dia. mm	mm	mm	Ω/km	amp	amp	amp	amp	amp	amp
10	322 X 0.20	2.00	8.10	1.910	100	100	100	101	106	118
16	511 X 0.20	2.00	9.10	1.210	135	136	136	139	150	174
25	798 X 0.20	2.00	10.60	0.780	180	182	183	190	213	254
35	1121 X 0.20	2.00	11.80	0.554	225	229	231	243	279	338
50	1596 X 0.20	2.20	13.70	0.386	285	293	296	316	371	457
70	2220 X 0.20	2.40	16.60	0.272	355	367	373	403	482	602
95	1349 X 0.30	2.60	18.20	0.206	430	448	456	498	606	765
120	608 X 0.50	2.80	21.60	0.161	500	524	534	587	721	917
150	760 X 0.50	3.00	24.00	0.129	580	610	622	689	853	1090
185	943 X 0.50	3.20	26.30	0.106	665	702	717	797	995	1277
240	1225 X 0.50	3.50	29.20	0.0801	710	770	916	1296	1587	744
300	1498 X 0.50	3.60	31.70	0.0641	800	850	1035	1450	1790	840
400	2035 X 0.50	3.80	36.00	0.0486	925	1000	1195	1690	2070	970

- The number of wires is approximate and wire diameter is nominal; they shall be such as to satisfy the requirements of conductor resistance of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360
- In view of continuous improvements in our design and process, specifications given here in are subject change without notice.

- > All are flexible conductor
- > Insulation material is HOFR

### Rating factors for variation in ambient temperature

Ambient temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57

