

H01N2-D Welding Cable



APPLICATION

These cables are used as a connection to welding robots in the automotive industry, shipyards and for manually/automatically operated lines and spot welding. These cables are ideal for use as an interconnecting battery cable or in battery storage systems. The robust cable structure makes them resistant to low and high temperatures, ozone and radiation, oils, acids, fats and petrols.

CHARACTERISTICS

Voltage Rating U_0/U

100V

Operating Temperature

Fixed: -40°C to +85°C

Flexed: - 20°C to +85°C

Minimum Bending Radius

Flexed: 6 x overall diameter

STANDARDS

EN 50525-2-81, EN 60228, HD 22.6, VDE 0282-6,

BS 638 Part 4

Flame Retardant according to IEC/EN 60332-1-2

CONSTRUCTION

Conductor

Generally to Class 6 flexible copper conductor

Separator

PET (Polyester Tape)

Sheath

Rubber compound

Sheath Colour

Black, Red; customization is available

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

DIMENSIONS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT
	mm ²	mm	mm	kg/km
1	10	2	9	146
1	16	2	10	204
1	25	2	11.5	290
1	35	2	12.5	384
1	50	2.2	14.5	535
1	70	2.4	16.5	716
1	95	2.6	18.5	943
1	120	2.8	20.5	1235
1	150	3	23	1556

CORE CODES

COLOUR	Black	Red
CODE	E	RD

CONDUCTORS

Flexible Copper Conductors for Single Core Cables

NOMINAL CROSS SECTIONAL AREA	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
mm ²	mm	ohms/km Plain Wires
10	0.21	1.91
16	0.21	1.21
25	0.21	0.78
35	0.21	0.554
50	0.21	0.386
70	0.21	0.272
95	0.21	0.206
120	0.51	0.161
150	0.51	0.129

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA	CURRENT RATING FOR SINGLE CYCLE OPERATION OVER A MAXIMUM PERIOD OF 5 MINUTES			
	Amps			
mm ²	100%	85%	60%	35%
10	100	103	108	122
16	135	145	175	230
25	180	195	230	300
35	225	245	290	375
50	285	305	365	480
70	355	385	460	600
95	430	470	560	730
120	500	540	650	850
150	580	630	750	980

DE-RATING FACTORS

AMBIENT TEMPERATURE	25°C	30°C	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	1.00	0.96	0.91	0.87	0.82	0.76	0.71