

H01N2-D / -E 100 V, VDE approved, welding cable



Technical data

- Harmonized welding cable with rubber jacket, according to DIN VDE 0282 part 6 or HD 22.6 S2
- **Conductor resistance** according to HD 383 cl. 6
- **Conductor resistance factor** at 20 °C - see Technical Informations
- **Temperature range** flexing -25 °C to +80 °C fixed installation -40 °C to +80 °C
- **Admissible working temperature** at conductor +85 °C
- **Nominal voltage** U_0/U 100/100 V
- **Test voltage** 1000 V

Cable structure

- Plain copper conductors (on request tinned conductor available), extra fine stranded to DIN VDE 0295, BS 6360, IEC 60228 and HD 383
- Separator over conductor
- Neoprene outer jacket, chlorinated rubber compound EM5
- Outer sheath black
- Without green-yellow marking

Properties

- Test according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistant to DIN EN 60811-2-1
- The cable also maintains its high flexibility under the effect of ozone, light, oxygen, inert gas, oil or petrol

Note

- No. wires = Gauiding value, the number of individual wires are without obligation.

Application

For use between the welding generator and the hand-electrode and the workpiece. For use in the automobile industry, in shipbuilding, in transport and conveyor systems, tool making machinery, welding robots etc. These cables retain their high flexibility even under influence of ozone, light, oxygen, protective gases, oil and petrol. The robust construction makes these cables resistant to both to cold and the heat as well as to flames. They are suitable for use in open spaces and in dry and damp conditions.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

H01N2-D: Cables with standard flexibility, bending radius: approx. 12 x CableØ

Part no.	No. cores x cross-sec. mm ²	No. wires x single wire Ø mm	Sheat Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
31001	1 x 10	320 x 0,2	2	7,7 - 9,7	96,0	135,0	8
31002	1 x 16	512 x 0,2	2	8,8 - 11,0	154,0	205,0	6
31003	1 x 25	800 x 0,2	2	10,1 - 12,7	240,0	302,0	4
31004	1 x 35	1120 x 0,2	2	11,4 - 14,2	336,0	420,0	2
31005	1 x 50	1600 x 0,2	2,2	13,2 - 16,5	480,0	586,0	1
31006	1 x 70	2240 x 0,2	2,4	15,3 - 19,2	672,0	798,0	2/0
31007	1 x 95	3024 x 0,2	2,6	17,1 - 21,4	912,0	1015,0	3/0
31008	1 x 120	614 x 0,5	2,8	19,2 - 24,0	1152,0	1310,0	4/0
31030	1 x 150	765 x 0,5	3	21,2 - 26,4	1440,0	1620,0	300 kcmil
31031	1 x 185	944 x 0,5	3,2	23,1 - 28,9	1776,0	1916,0	350 kcmil
31009	1 x 240	1225 x 0,5	3,4	25,0 - 29,5	2304,0	2540,0	500 kcmil

H01N2-E: Cables with extreme high flexibility, bending radius: approx. 10 x CableØ

Part no.	No. cores x cross-sec. mm ²	No. wires x single wire Ø mm	Sheat Nominal value mm	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
31032	1 x 10	566 x 0,15	1,2	6,2 - 7,8	96,0	119,0	8
31033	1 x 16	903 x 0,15	1,2	7,3 - 9,1	154,0	181,0	6
31034	1 x 25	1407 x 0,15	1,2	8,6 - 10,8	240,0	270,0	4
31035	1 x 35	1974 x 0,15	1,2	9,8 - 12,3	336,0	363,0	2
31036	1 x 50	2830 x 0,15	1,5	11,9 - 14,8	480,0	528,0	1
31037	1 x 70	3952 x 0,15	1,5	13,6 - 17,0	672,0	716,0	2/0
31038	1 x 95	5370 x 0,15	1,8	15,6 - 19,5	912,0	1012,0	3/0
31039	1 x 120	3819 x 0,2	1,8	17,2 - 21,6	1152,0	1190,0	4/0
31019	1 x 150	4788 x 0,2	1,8	18,8 - 23,5	1440,0	1305,0	300 kcmil
31020	1 x 185	5852 x 0,2	1,8	20,4 - 25,5	1776,0	1511,0	350 kcmil

Dimensions and specifications may be changed without prior notice. (RK01)

Repeat cycle operation based on a 5-minute repeat period

Cross-section mm ²	Permanent operation ED 100% A	Intermittent operation					
		ED 85% A	ED 60% A	ED 35% A	ED 20% A	ED 8% A	
10	96	97	102	114	137	198	
16	130	132	142	166	204	301	
25	173	179	196	234	293	442	
35	216	226	250	304	384	584	
50	274	287	323	398	508	779	
70	341	360	409	510	655	1011	
95	413	438	502	632	816	1266	
120	480	511	588	745	966	1502	
150	557	594	687	875	1137	1771	
185	638	683	793	1012	1319	2059	

Repeat cycle operation based on a 10-min. repeat period

Cross-section mm ²	Permanent operation ED 100% A	Intermittent operation					
		ED 85% A	ED 60% A	ED 35% A	ED 20% A	ED 8% A	
10	96	96	97	102	113	152	
16	130	131	133	144	167	233	
25	173	175	182	204	244	351	
35	216	220	233	268	324	477	
50	274	281	303	356	439	654	
70	341	352	387	463	578	872	
95	413	430	478	582	734	1117	
120	480	503	564	692	880	1348	
150	557	586	661	819	1046	1609	
185	638	674	765	955	1226	1892	