



## CABLE STRUCTURE

<b>Conductor</b>	Electrolytic annealed, class 6 stranded plain copper wires <i>Class 5 copper wires for 120 mm<sup>2</sup> and above</i> (tinned conductor on request)
<b>Seperator</b>	A suitable tape may be applied over the conductor
<b>Insulation</b>	EM5 type cross-linked elastomeric compound (EN 50363-2-2)
<b>Color</b>	Black (Red or Orange on request)

## MAIN CHARACTERISTICS

<b>Construction</b>	EN 50525-2-81, VDE 0285-525-2-81, IEC 60245-6
<b>General Requirements</b>	EN 50525-1, VDE 0285-525-1, IEC 60245-1
<b>Guide to Use</b>	EN 50565-1/2, VDE 0298-565-1
<b>Electrical Tests</b>	EN 50395, IEC 60245-2
<b>Non-electrical Tests</b>	EN 50396, IEC 60245-2
<b>Conductor Resistance</b>	IEC 60228, VDE 0295
<b>Flame Retardant</b>	IEC 60332-1-2, VDE 0482-332-1-2
<b>Oil Resistant</b>	EN 60811-404, VDE 0473-811-404

## OPERATING CHARACTERISTICS

<b>Rated Voltage</b>	100 V / 100 V (U <sub>0</sub> /U)
<b>Max. Operating Voltage AC</b>	110 V / 110 V
<b>Max. Operating Voltage DC</b>	150 V
<b>AC Test Voltage</b>	1 kV
<b>Operating Tempetature</b>	
<i>In Flexing Use</i>	-20°C to +85°C
<i>In Fixed Use</i>	-40°C to +85°C
<b>Conductor Short-Circuit Temp.</b>	250°C (Max. 5 sec)
<b>Min. Installation Temp.</b>	-20°C
<b>Min. Bending Radius</b>	EN 50565-1 Tab. 3
<b>Current Carrying Capacities</b>	VDE 0298-4, Tab. 16

## APPLICATIONS

These flexible cables are used in several industries as hand-plier connections for 100 V welding machines. Their structure makes them available to use in open spaces, wet and oily environments. They are resistant to cold, UV, ozone, moisture, heat and hot particles.



## H01N2-D

Cross Section (mm <sup>2</sup> )	Nominal Overall Diameter (mm)	Approximate Weight (kg/km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x10	8,30	137	33	1,91
1x16	9,40	197	38	1,21
1x25	10,90	279	44	0,780
1x35	12,10	369	61	0,554
1x50	14,20	515	71	0,386
1x70	16,30	712	82	0,272
1x95	18,40	916	92	0,206
1x120	20,40	1169	122	0,161
1x150	22,20	1453	133	0,129
1x185	24,90	1802	149	0,106
1x240	27,80	2327	167	0,0801



Rated current values are recommended according to VDE 0298-4 table 16. at ambient temperature of 30 °C

### Current rating for repeat cycle operation based on 5 min repeat period

Nominal cross section area (mm <sup>2</sup> )	Current rating (A)						
	100% duty cycle	85% duty cycle	80% duty cycle	60% duty cycle	35% duty cycle	20% duty cycle	8% duty cycle
10	96	97	98	102	114	137	198
16	130	132	134	142	166	204	301
25	173	179	181	196	234	293	442
35	216	226	229	250	304	384	584
50	274	287	293	323	398	508	779
70	341	360	368	409	510	655	1011
95	413	438	448	502	632	816	1266
120	480	511	523	588	745	966	1502
150	557	594	609	687	875	1137	1771
185	638	683	700	793	1012	1319	2059

### Current rating for repeat cycle operation based on a 10 min repeat period

Nominal cross section area (mm <sup>2</sup> )	Current rating (A)						
	100% duty cycle	85% duty cycle	80% duty cycle	60% duty cycle	35% duty cycle	20% duty cycle	8% duty cycle
10	96	96	96	97	102	113	152
16	130	131	131	133	144	167	233
25	173	175	176	182	204	244	351
35	216	220	222	233	268	324	477
50	274	281	284	303	356	439	654
70	341	352	358	387	463	578	872
95	413	430	438	478	582	734	1117
120	480	503	513	564	692	880	1348
150	557	586	597	641	819	1046	1609
185	638	674	688	765	955	1226	1892

Correction factors acc. to the different ambient temperature use table 17 given in technical data section.