

H01N2-E FLEXIPREN



Application

These cables are intended for use with hand-held electrodes at 100V in dry, humid and moist rooms as well as outdoors, where the cables are subjected to high mechanical stresses.
In other respects, the general specifications of DIN VDE 0298-300 apply.

Global data

Brand	FLEXIPREN
Type designation	H01N2-E
Standard	EN50525-2-81

Design features

Conductor Material	Bare copper
Conductor shape	Round (R)
Conductor class	Class 6, multiflexible (F)
Outer sheath	Cross-linked elastomeric special compound: requirements in accordance with DIN EN 50363-2-2: EM5
Outer Sheath Colour	black

Electrical parameters

Rated voltage	100/100V (<300/300V)
Maximum permissible operating voltage AC	0.110/0.110 kV
Maximum permissible operating voltage DC	0.165/0.165 kV
AC test voltage	1 kV

Chemical parameters

Reactance to Fire	DIN EN 60332-1-2 IEC 60332-1-2
Flame propagation	DIN EN 60332-1-2
Resistance to oil	DIN EN 60811-2-1 IEC 60811-2-1

Thermal parameters

Max. operating temperature	85 °C
Short circuit temperature	250 °C
Ambient temperature for fix installation min.	-40 °C
Ambient temperature in fully flexible operation min.	-25 °C

Mechanical parameters

Tensile load on the conductor max .	15 N/mm ²
Bending radii min.	Acc. to DIN VDE 0298 part 3

Number of cores x cross section	Part number	Conductor diameter max. mm	Outer Sheath Thickness nom. mm	Outer diameter min. mm	Outer diameter max. mm	Outer diameter nom. mm	Bending radius free moving min. mm	Weight (ca.) kg/km	Permissible tensile force max. N	Conductor resistance at 20°C max. Ω/km	Current carrying capacity (1) A	Short Circuit Current (conductor) kA
1 x 10		5.1	1.2	6.2	7.8	7	45		150	1.91		
1 x 16		6.3	1.2	7.3	9.1	8.2	45	201	240	1.21	130	2.3
1 x 25		7.8	1.2	8.6	10.8	9.7	45	283	375	0.78	173	3.6
1 x 35		9.2	1.2	9.8	12.3	11.1	50	378	525	0.554	216	5
1 x 50	20004241	11	1.5	11.9	14.8	13.4	50	534	750	0.386	274	7.2
1 x 70	20004242	13.1	1.5	13.6	17	15.3	55	737	1050	0.272	341	10
1 x 95	20004243	15.1	1.8	15.6	19.5	17.6	60	961	1425	0.206	413	13.6
1 x 120		17	1.8	17.2	21.6	19.4	75	1219	1800	0.161	480	17.2
1 x 150		19	1.8	18.8	23.5	21.2	90	1500	2250	0.129	557	21.5
1 x 185		21	1.8	20.4	25.5	23	95	1817	2775	0.106	638	26.5
1 x 240		24	2	23	28	25.5	100		3600	0.0801		