

SINGLE WIRE CABLES FOR SWITCHBOARD PANELS AND INTERNAL WIRING

Type SH-W

SH-W 150/250V 90°C 0,75 mm²- IEC 60092-376 - IEC 60332-1-2

SH-W 0,6/1 kV 90°C 16 mm²- IEC 60092-353 - IEC 60332-1-2

DESIGN DETAILS (reference Standard IEC 60092-353 and IEC 60092-376)

Conductor	Bare or tinned copper class 2 or 5 according to IEC 60228
Insulation	HF XLPE compound according to IEC 60092-360 Thickness according to IEC 60092-353 table 1 and to IEC 60092-376 table 2
Marking	For cross-sections 0,50 and 0,75 mm ² SH-W 150/250 V 90°C cross-section – IEC 60092-376 – IEC 60332-1-2 – traceability code For cross-sections 1 mm ² and above SH-W 0,6/1 kV 90°C cross-section – IEC 60092-353 – IEC 60332-1-2 – traceability code

Rated voltage: 150/250 V for cross-sections 0,50 and 0,75 mm²
0,6/1 kV for cross-sections 1 mm² and above

Rated conductor temperature: 90°C

Fire behaviour:

IEC 60332-1-2 not flame propagation
IEC 60754-1 halogen content
IEC 60754-2 pH and conductivity
IEC 60684-2 fluorine content
IEC 61034-1 and 61034-2 light transmittance

Code (*)	Conductor number x cross-section [nxmm²]	Insulation nominal thickness [mm]	Overall diameter [mm]	Current carrying capacity * [Amp]
N0014	1x0,50	0,40	2,3	12
N0015	1x0,75	0,50	2,5	15
N0016	1x1	0,70	2,7	19
N0017	1x1,5	0,70	3,0	23
N0019	1x2,5	0,70	3,4	31
N001A	1x4	0,70	3,9	43
N001B	1x6	0,70	4,4	55
N001D	1x10	0,70	5,4	75
N001E	1x16	0,70	6,4	100
N001F	1x25	0,90	8,3	140
N001G	1x35	0,90	9,6	174
N001H	1x50	1,00	11,2	211
N001J	1x70	1,10	13,0	270
N001K	1x95	1,10	15,3	328
N001L	1x120	1,20	17,0	380
N001M	1x150	1,40	18,6	438
N001N	1x185	1,60	21,0	500
N001P	1x240	1,70	23,9	591
N001Q	1x300	1,80	26,6	681

* according IEC 60092-352 Table A.4: ambient air temperature: 45°C

Correction factor for deviating ambient temperature acc. IEC 60092-352 Table 3

Maximum rated conductor temperature °C	Correction factors for ambient air temperature of										
	35 °C	40 °C	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C	75 °C	80 °C	85 °C
60	1,29	1,15	1,00	0,82	-	-	-	-	-	-	-
65	1,22	1,12	1,00	0,87	0,71	-	-	-	-	-	-
70	1,18	1,10	1,00	0,89	0,77	0,63	-	-	-	-	-
75	1,15	1,08	1,00	0,91	0,82	0,71	0,58	-	-	-	-
80	1,13	1,07	1,00	0,93	0,85	0,76	0,65	0,53	-	-	-
85	1,12	1,06	1,00	0,94	0,87	0,79	0,71	0,61	0,50	-	-
90	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47	-
95	1,10	1,05	1,00	0,95	0,89	0,84	0,77	0,71	0,63	0,55	0,45