

Cable Type : SINGLE CORE NON-SHEATHED CABLES WITH HALOGEN-FREE CROSSLINKED INSULATION, AND LOW EMISSION OF SMOKE (90 °C)



CERTIFICATE/APPROVAL



CABLE DESCRIPTION

CONSTRUCTION

STANDARD	:	EN 50525-3-41
(1) CONDUCTOR	:	CLASS 1 & 2 EN 60228 Class 1 - Solid copper conductor Class 2 - Stranded copper conductor
(2) INSULATION	:	LSZH (Low Smoke Zero Halogen) Type EI 5

CHARACTERISTICS

OPERATING TEMPERATURE	:	-5 °C / +90 °C
MAX. SHORT CIRCUIT TEMPERATURE	:	160 °C (max. 5 sec.)
NOMINAL VOLTAGE (U ₀ /U)	:	H05 300/500 V H07 450/750 V
TEST VOLTAGE	:	H05 2000 V H07 2500 V
MINIMUM BENDING RADIUS	:	3 x Ø up to 10 mm ² 4 x Ø 10 up to 25 mm ² 5 x Ø above 25 mm ²

FLAME RETARDANT

IEC 60332-1-2



APPLICATIONS

Used in places where human population is high and there is a risk of fire. They do not conduct flame during fire and do not create high smoke density.



CABLE DIAMETERS

NUMBER AND NOMINAL CROSS-SECTIONAL AREA OF CONDUCTORS	CLASS OF CONDUCTOR	COPPER DIMENSION	THICKNESS OF INSULATION SPECIFIED VALUE	MEAN OVERALL DIMENSIONS		MAX. RESISTANCE at 20°C	MINIMUM INSULATION RESISTANCE AT RATED TEMPERATURE
				LOWER LIMIT ϕ	UPPER LIMIT ϕ		
mm ²		mm	mm	mm	mm	Ω /km	m Ω .km
H05Z-U							
0,50	1	0,80	0,60	1,90	2,40	36,00	0,015
0,75	1	0,98	0,60	2,10	2,60	24,50	0,012
1	1	1,13	0,60	2,20	2,80	18,10	0,011
H07Z-U							
1,5	1	1,365	0,70	2,60	3,30	12,10	0,011
2,5	1	1,74	0,80	3,20	4,00	7,41	0,010
4	1	2,19	0,80	3,60	4,60	4,61	0,0085
6	1	2,69	0,80	4,10	5,20	3,08	0,0070
10	1	3,50	1,00	5,30	6,60	1,83	0,0070
H07Z-R							
1,5	2	7 / 0,53	0,70	2,70	3,40	12,10	0,010
2,5	2	7 / 0,67	0,80	3,30	4,10	7,41	0,009
4	2	7 / 0,85	0,80	3,80	4,70	4,61	0,0077
6	2	7 / 1,03	0,80	4,30	5,40	3,08	0,0065
10	2	7 / 1,34	1,00	5,60	7,00	1,83	0,0065
16	2	7 / 1,69	1,00	6,40	8,00	1,15	0,0050
25	2	7 / 2,19	1,20	8,10	10,10	0,727	0,0050
35	2	7 / 2,60	1,20	9,00	11,30	0,524	0,0043
50	2	10 / 2,60	1,40	10,60	13,20	0,387	0,0043
70	2	14 / 2,60	1,40	12,10	15,10	0,268	0,0035
95	2	19 / 2,60	1,60	14,10	17,60	0,193	0,0035
120	2	19 / 2,98	1,60	15,60	19,40	0,153	0,0032
150	2	24 / 2,98	1,80	17,30	21,60	0,124	0,0032
185	2	30 / 2,98	2,00	19,30	24,10	0,0991	0,0032
240	2	37 / 2,98	2,20	22,00	27,50	0,0754	0,0032

Due to variables in production, the information on this data sheet is approximate and subject to change without any notice.

