

FLAMEBLOCKER

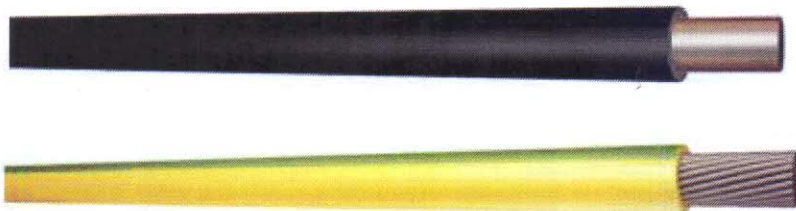
H07Z-U

H07Z-R

450/750V

PN -EN 50525-3-41, BS EN 50525-3-41

Single core non-sheathed cables with low emission of smoke and corrosive gases



CONSTRUCTION

Conductors:	annealed copper conductor acc. to EN 60228: class 1 solid -H07Z-U, class 2 stranded H07Z-R,
Insulation:	special thermosetting low smoke zero halogen compound type EI5 acc. to EN 50363-5
Colour of insulation	green/yellow, blue, black, brown, grey, orange, pink, red, turquoise, violet, white

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C			
Lowest ambient temperature for fixed installation:	-40°C			
Lowest installation temperature:	-5°C			
Maximum short-circuit conductor temperature:	+250°C			
Test voltage:	2500V			
Minimum bending radius:	For cable diameter D (mm)			
Diameter	≤ 8mm	> 8mm ≤ 12mm	> 12mm ≤ 20mm	> 20mm
Normal use	4 D	5 D	6 D	6 D
Careful bending at termination	2 D	3 D	4 D	4 D
Max. permissible tensile stress with cable grip for Cu-conductor: 50 N/mm²				

FIRE PERFORMANCE

▪ Flame retardant:	EN 60332-1-2, EN 60332-3-24
▪ Smoke density:	EN 61034-2
Gases evolved during combustion:	EN 60754-2, pH ≥ 4,3 & conductivity ≤ 10 μSmm ⁻¹ EN 60754-1, HCL ≤ 0,5%
▪ CPR – class reaction to fire (acc EN 50575):	Eca, Dca-s1,d0,a1, Dca-s1,d0,a1, Cca-s2,d0,a1,

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Replace FLAMEBLOCKER H07Z-U,R JM-14-07-2017

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APPLICATIONS

Single core, non-sheathed cables are suitable particularly for situations in which low emission of smoke and corrosive gases is required in the case of burning.

H07Z-U, H07Z-R - single core, non-sheathed cables are intended for installation in surface mounted or embedded conduits, or similar closed systems. Suitable for fixed protected installation in, or on, lighting and control gear for voltages up to 1000 V a.c. or, up to 750V d.c. to earth

Standard length cable packing

50 m of 100 m in coils or on spools, or 500 m on drums.

Other forms of packing and delivery are available on request

Cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at 20°C	Minimum insulation resistance at 90°C	CPR – class reaction to fire
mm ²	mm	kg/km	Ω/km	MΩ.km	
H07Z-U					
1,5	2,8	19	12,1	0,011	Eca
2,5	3,3	30	7,41	0,010	Eca
4	3,8	45	4,61	0,0085	Dca-s1,d0,a1
6	4,3	63	3,08	0,0070	Dca-s1,d0,a1
10	5,5	105	1,83	0,0070	Cca-s2,d0,a1
H07Z-R					
1,5	3,0	21	12,1	0,010	Eca
2,5	3,6	32	7,41	0,0090	Eca
4	4,1	47	4,61	0,0077	Dca-s1,d0,a1
6	4,7	67	3,08	0,0065	Dca-s1,d0,a1
10	6,0	111	1,83	0,0065	Cca-s2,d0,a1
16	7,0	168	1,15	0,0050	Cca-s2,d0,a1
25	8,7	263	0,727	0,0050	Cca-s2,d0,a1
35	9,8	356	0,524	0,0043	Cca-s2,d0,a1
50	11,6	478	0,387	0,0043	Cca-s2,d0,a1
70	13,3	674	0,268	0,0035	Cca-s2,d0,a1
95	15,6	932	0,193	0,0035	Cca-s2,d0,a1
120	17,2	1155	0,153	0,0032	Cca-s2,d0,a1
150	18,4	1421	0,124	0,0032	Cca-s2,d0,a1
185	20,3	1774	0,0991	0,0032	Cca-s2,d0,a1
240	23,2	2307	0,0754	0,0032	Cca-s2,d0,a1
300	25,4	2886	0,0601	0,0030	Cca-s2,d0,a1
400	28,5	3729	0,0470	0,0028	Cca-s2,d0,a1
500	32,1	4768	0,0366	0,0028	Cca-s2,d0,a1
630	36,3	6030	0,0283	0,0025	Cca-s2,d0,a1

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