



638*TQ / H07BN4-F 450/750V

EN 50525-2-21

Heat resisting 90°C epr insulated and cpe sheathed flexible cable, 450/750V

APPLICATIONS

For general use in hot situations and heating applications. Heavy-duty flexible cables for medium mechanical stress in dry and wet, suitable for large boiling installations, heating plates, inspection lamps, electrical tools such as drills, circular saws, domestic electric tools, transportable motors etc. Other industrial applications. Cable may be rated at 600/1000V when installed with mechanical protection.

Standard length cable packing

1000m on drums. Other forms of packing and delivery are available on request.

CONSTRUCTION

Conductors	Annealed flexible stranded tin coated or bare copper class 5 to EN 60228, IEC 60228			
Separator	If needed a suitable tape separator between the conductor and insulation			
Insulation	Ethylene-propylene rubber (EPR) type EI7			
Circuit identification	Colour coding of power conductors comply to HD 308			
Twin	Blue and brown			
3-core	Green-yellow, blue, brown			
4-core	Green-yellow, brown, black, grey			
5-core	Green-yellow, blue, brown, black, grey			
Above 5-core	Green-yellow, other cores black with white numbering			
Outer jacket	A synthetic thermosetting compound type EM7			
Colour of outer jacket	Black or colours can be provided			
Flame propagation	EN 60332-1-2:2004, IEC 60332-1-2:2004			
Minimum bending radius:	For cable diameter D (mm)			
	D < 8	8 < D < 12	12 < D < 20	D > 20
For fixed installation:	3 D	3 D	4 D	4 D
At inlet of portable appliance or mobile equipment. No mechanical load on cable	4 D	4 D	5 D	6 D
Under mechanical load	6 D	6 D	6 D	8 D



Features

- Maximum conductor operating temperature: +90°C
- Maximum conductor temperature during short circuit: +250°C
- Lowest ambient temperature for fixed installation: -40°C
- Lowest ambient temperature for mobile installation: -25°C
- UV, sunlight, oil resistant

Number and cross-sectional area of conductor	Maximum diameter of wires	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight	Maximum resistance of conductor at 20°C
n x mm²	mm	mm	mm	mm	kg/km	Ω/km
1 x 1,5	0,26	0,8	1,4	5,9	50	13,7
1 x 2,5	0,26	0,9	1,4	6,6	65	8,21
1 x 4	0,31	1,0	1,5	7,5	89	5,09
1 x 6	0,31	1,0	1,6	8,4	118	3,39
1 x 10	0,41	1,2	1,8	10,1	179	1,95
1 x 16	0,41	1,2	1,9	11,5	248	1,24
1 x 25	0,41	1,4	2,0	13,2	354	0,795
1 x 35	0,41	1,4	2,2	14,7	460	0,565
1 x 50	0,41	1,6	2,4	17,2	640	0,393
1 x 70	0,51	1,6	2,6	19,3	877	0,277
1 x 95	0,51	1,8	2,8	22,2	1138	0,210
1 x 120	0,51	1,8	3,0	23,7	1399	0,164
1 x 150	0,51	2,0	3,2	26,4	1732	0,132
1 x 185	0,51	2,2	3,4	29,4	2102	0,108
1 x 240	0,51	2,4	3,5	31,5	2657	0,0817
1 x 300	0,51	2,6	3,6	35,7	3296	0,0654
1 x 400	0,51	2,8	3,8	38,3	4205	0,0495
1 x 500	0,61	3,0	4,0	43,8	5285	0,0391
1 x 630	0,61	3,0	4,1	48,4	6837	0,0292
2 x 4	0,31	1,0	1,8	13,0	236	5,09
2 x 6	0,31	1,0	2,0	14,2	292	3,39
2 x 10	0,41	1,2	3,1	19,3	561	1,95
2 x 16	0,41	1,2	3,3	22,0	719	1,24
2 x 25	0,41	1,4	3,6	25,7	1026	0,795
3 x 4	0,31	1,0	1,9	13,9	295	5,09

Number and cross-sectional area of conductor	Maximum diameter of wires	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Approximate net weight	Maximum resistance of conductor at 20°C
n x mm²	mm	mm	mm	mm	kg/km	Ω/km
3 x 6	0,31	1,0	2,1	15,4	359	3,39
3 x 10	0,41	1,2	3,3	20,7	648	1,95
3 x 16	0,41	1,2	3,5	23,5	908	1,24
3 x 25	0,41	1,4	3,8	27,5	1302	0,795
3 x 35	0,41	1,4	4,1	29,7	1633	0,565
3 x 50	0,41	1,6	4,5	35,7	2310	0,393
4 x 4	0,31	1,0	2,0	14,9	337	5,09
4 x 6	0,31	1,0	2,3	16,9	456	3,39
4 x 16	0,41	1,2	3,6	25,7	1119	1,24
4 x 25	0,41	1,4	4,1	30,5	1642	0,795
4 x 35	0,41	1,4	4,4	32,9	2092	0,565
4 x 50	0,41	1,6	4,8	39,5	2965	0,393

*Based on EN 50525-2-21 - as 07BN4-F, special colour coding can be provided

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