

Flexic H07BN4-F 450/750V

Heavy duty flexible copper power cable



Application

Heavy duty cable for use at medium mechanical stress in dry, wet and damp locations, as well as in free air. Also for fixed installation on plaster or machines. The cable is resistant to oil, UV-radiation and ozone.

Construction

Conductor	: Copper, thin strands forming a flexible conductor class 5, IEC60228
Insulation	: EPR 90 °C, EI7 of EN50363-1
Individual Core tape	: PET Tape separates around the conductor for easy stripping
Outer Sheath	: EM7 to EN50363-2-1:2011
Cable Standard	: EN50255-2-21 Dekra type tested and certified
Marking text	: E.g. FLEXIC H07BN4-F 1x4mm ² 450/750V 2015 KEMA-KEUR CE
Rated Voltage	: 450/750 V
Test voltage	: 2.5 kV

Core Identification

Colours acc. VDE 0293 (HD 308 S2); more than 5 cores: gn-ye + numbers

Outer Sheath Colours

Available colours : Black*

*Other sheath colours available by request.

Installation recommendations

Minimum Bending Radius:

The minimum bending radius during installation for single core cables is 8xD. For cables between 2 and 5 core up to 25 mm² diameters the radius is 8xD. For cables between 2 and 5 core larger than 25 mm² diameters the radius is 10xD.

The minimum bending radius during installation for single core cables is 6xD. For cables between 2 and 5 core up to 25 mm² diameters the radius is 6xD. For cables between 2 and 5 core larger than 25 mm² diameters the radius is 8xD.

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Max. operating temperature : 90 °C
 Max. operating temperature, fixed : -40 - +90 °C
 Temperature, moved/during installation : -40 - +90 °C

Standards applied

IEC60332-1, IEC60332-3-24 Flame Retardant
 ISO 4892-82 UV & Weather Resistant
 IEC60811-2-1 Ozon and Oil Resistancy
 EN50565 (HD516), IEC60364-5-52, BS7671, Guide to use
 VDE 0298-4 & NFC32-102-4

Range and Dimensions

Article Code	Number of Cores	Size Cross-Section in mm ²	Diameter over Conductor in mm	Insulation Thickness in mm	Approx. Overall Diameter in mm	Weight of Cable Approx. (Kg/Km)
E9001C004EAKBK3	1	4	2.55	1.0	7.67	96
E9001C006EAKBK3	1	6	3.02	1.0	8.34	121
E9001C010EAKBK3	1	10	4.40	1.2	10.50	196
E9001C016EAKBK3	1	16	5.50	1.2	11.80	265
E9001C025EAKBK3	1	25	6.90	1.4	13.80	383
E9001C035EAKBK3	1	35	8.00	1.4	15.30	491
E9001C050EAKBK3	1	50	9.60	1.6	17.70	689
E9001C070EAKBK3	1	70	11.50	1.6	20.0	900
E9001C095EAKBK3	1	95	13.50	1.8	22.80	1188
E9001C120EAKBK3	1	120	15.50	1.8	25.20	1494
E9001C150EAKBK3	1	150	17.10	2.0	27.60	1814
E9001C185EAKBK3	1	185	18.50	2.2	29.80	2171
E9001C240EAKBK3	1	240	21.70	2.4	33.60	2767
E9001C300EAKBK3	1	300	24.40	2.6	36.90	3424
E9001C400EAKBK3	1	400	28.10	2.8	41.40	4481
E9003C1.5EFFBK3	3G	1.5	1.55	0.8	10.00	149
E9003C2.5EFFBK3	3G	2.5	1.95	0.9	11.70	211
E9003C004EFFBK3	3G	4	2.55	1.0	13.60	300
E9003C006EFFBK3	3G	6	3.02	1.0	15.40	397
E9003C010EFFBK3	3G	10	4.40	1.2	21.60	754
E9003C016EFFBK3	3G	16	5.50	1.2	24.40	1013
E9003C025EFFBK3	3G	25	6.90	1.4	28.90	1473
E9003C035EFFBK3	3G	35	8.00	1.4	32.00	1865
E9003C050EFFBK3	3G	50	9.60	1.6	37.10	2602
E9003C070EFFBK3	3G	70	11.50	1.6	41.80	3370
E9003C095EFFBK3	3G	95	13.50	1.8	48.00	4477
E9003C120EFFBK3	3G	120	15.50	1.8	52.90	8509
E9003C150EFFBK3	3G	150	17.10	2.0	58.00	6780
E9003C185EFFBK3	3G	185	18.50	2.2	62.70	8085
E9003C240EFFBK3	3G	240	21.70	2.4	87.90	10509
E9004C01.5EBEBK3	4G	1.5				
E9004C02.5EBEBK3	4G	2.5	1.93	0.9	12.9	268
E9004C004EBEBK3	4G	4	2.46	1.0	14.8	376
E9004C006EBEBK3	4G	6	2.93	1.0	16.6	498
E9004C010EBEBK3	4G	10				
E9004C025EBEBK3	4G	25				
E9005C1.5EBDBK3	5G	1.5	1.55	0.8	12.10	217
E9005C2.5EBDBK3	5G	2.5	1.95	0.9	14.10	307
E9005C004EBDBK3	5G	4	2.55	1.0	16.70	448
E9005C006EBDBK3	5G	6	3.02	1.0	19.00	604
E9005C010EBDBK3	5G	10	4.40	1.2	26.00	1100
E9005C016EBDBK3	5G	16	5.50	1.2	29.50	1504
E9005C025EBDBK3	5G	25	6.90	1.4	35.40	2229
E9005C035EBDBK3	5G	35	8.00	1.4	38.90	2803
E9005C050EBDBK3	5G	50	9.60	1.6	45.50	3963

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E9005C070EBDBK3	5G	70	11.50	1.6	51.60	5186
E9005C095EBDBK3	5G	95	13.50	1.8	59.30	6893
E9005C120EBDBK3	5G	120	15.50	1.8	64.70	8509
E9005C150EBDBK3	5G	150	17.10	2.0	71.10	10353
E9005C185EBDBK3	5G	185	18.50	2.2	77.20	12425
E9005C240EBDBK3	5G	240	21.70	2.4	88.90	16093

Electrical characteristics

Number of Cores	Size Cross-Section in mm ²	M.C.C.R. Parallel Laying IN AIR in Amperes	M.C.C.R. Trefoil Laying IN AIR in Amperes	Maximum Short-Circuit Current For 1 second* in Amperes	Voltage Drop 3 phase system at Cos(φ)=1 in V/A/km
1	4	45	44	572	10.9
1	6	70	53	859	7.3
1	10	100	77	1431	4.2
1	16	131	102	2289	2.69
1	25	173	136	3577	1.75
1	35	211	168	5008	1.25
1	50	265	212	7154	0.89
1	70	330	266	10016	0.66
1	95	396	321	13593	0.53
1	120	463	377	17170	0.44
1	150	531	435	21463	0.37
1	185	597	490	26470	0.33
1	240	719	592	34340	0.31
1	300	830	686	42925	0.29
1	400	987	818	57233	0.27
3G	1.5	25	-	215	17.0
3G	2.5	34	-	358	10.2
3G	4	46	-	572	6.3
3G	6	57	-	859	4.2
3G	10	82	-	1431	2.4
3G	16	107	-	2289	1.55
3G	25	141	-	3.5 k	1.0
3G	35	174	-	5.0 k	0.71
3G	50	219	-	7.1 k	0.5
3G	70	270	-	10.0 k	0.36
3G	95	320	-	13.5 k	0.27
3G	120	377	-	17.1 k	0.22
3G	150	429	-	21.4 k	0.18
3G	185	480	-	26.4 k	0.16
3G	240	565	-	34.3 k	0.13
5G	1.5	22	-	215	29.4
5G	2.5	30	-	358	17.6
5G	4	41	-	572	10.9
5G	6	51	-	859	7.3
5G	10	73	-	1431	4.2
5G	16	96	-	2289	2.68
5G	25	126	-	3.5 k	1.73
5G	35	155	-	5.0 k	1.24
5G	50	195	-	7.1 k	0.87
5G	70	240	-	10.0 k	0.62
5G	95	285	-	13.5 k	0.48
5G	120	338	-	17.1 k	0.39
5G	150	385	-	21.4 k	0.32
5G	185	429	-	26.4 k	0.27
5G	240	508	-	34.3 k	0.24

NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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