

H07RN-F 450/750V

Rubber insulated cable copper power cable



Application

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	: Bare copper, fine stranded, class 5
Insulation	: EPR 90 °C, EI4
Outer sheath	: Rubber (CR) EM2
Marking text	: E.g. FLEXIC H07RN-F 1x4mm ² 450/750V 2015 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 continuously installed 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.

Max. operating temperature	: 70 °C
Max. operating temperature, fixed	: -25 - +80 °C
Temperature, moved/during installation	: -25 - +80 °C

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Standards applied

VDE 0482-332-1-2, IEC 60332-1
EN 60811-2-1
IEC 60811

Flame Retardant
Oil Resistant
Ozone resistant

Range and Dimensions

Article Code	Number of elements	Size Cross-Section in mm ²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
E9601C1.5EAKBK3	1	1.5	5.9	50
E9601C2.5EAKBK3	1	2.5	6.6	80
E9601C004EAKBK3	1	4	7.4	100
E9601C006EAKBK3	1	6	8.1	130
E9601C010EAKBK3	1	10	9.7	220
E9601C016EAKBK3	1	16	11	280
E9601C025EAKBK3	1	25	12.9	400
E9601C035EAKBK3	1	35	14.6	520
E9601C050EAKBK3	1	50	16.8	720
E9601C070EAKBK3	1	70	18.9	940
E9601C095EAKBK3	1	95	21.1	1220
E9601C120EAKBK3	1	120	23.1	1510
E9601C150EAKBK3	1	150	25.6	1900
E9601C185EAKBK3	1	185	27.9	2300
E9601C240EAKBK3	1	240	31	2900
E9601C300EAKBK3	1	300	34.1	3600
E9601C400EAKBK3	1	400	38.5	4800
E9601C630EAKBK3	1	630	48.5	6849
E9603C1.0EWWBK3	2	1	7.8	100
E9603C1.5EWWBK3	2	1.5	8.7	130
E9603C2.5EWWBK3	2	2.5	10.4	195
E9603C004EWWBK3	2	4	12	280
E9603C006EWWBK3	2	6	13.3	400
E9603C001EBABK3	3	1	8.4	90
E9603C001EFFBK3	3G	1	8.4	125
E9603C1.5EBABK3	3	1.5	9.4	155
E9603C1.5EFFBK3	3G	1.5	9.4	155
E9603C2.5EBABK3	3	2.5	11.1	235
E9603C2.5EFFBK3	3G	2.5	11.1	235
E9603C004EFFBK3	3G	4	12.9	310
E9603C006EBABK3	3	6	14.3	495
E9603C006EFFBK3	3G	6	14.3	400
E9603C010EBABK3	3	10	19.3	730
E9603C010EFFBK3	3G	10	19.3	810
E9603C016EBABK3	3	16	22.1	1020
E9603C016EFFBK3	3G	16	22.1	1000
E9603C025EBABK3	3	25	27	1250
E9603C025EFFBK3	3G	25	27	1250
E9603C035EBABK3	3	35	29.6	1733
E9603C035EFFBK3	3G	35	29.6	1850
E9603C050EFFBK3	3G	50	36	3790
E9604C001EBEBK3	4G	1	9.5	129
E9604C1.5EBEBK3	4G	1.5	10.4	190
E9604C2.5EBEBK3	4G	2.5	12.3	280
E9604C004EBEBK3	4G	4	14.2	380
E9604C006EBEBK3	4G	6	15.9	510
E9604C010EBCBK3	4	10	21.3	940
E9604C010EBEBK3	4G	10	21.3	940
E9604C016EBCBK3	4	16	24.2	1250
E9604C016EBEBK3	4G	16	24.2	1250
E9604C025EBCBK3	4	25	29.3	1850
E9604C025EBEBK3	4G	25	29.3	1850
E9604C035EBEBK3	4G	35	33	2310
E9604C050EBEBK3	4G	50	38.2	3160
E9604C070EBEBK3	4G	70	43.2	4250

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Article Code	Number of elements	Size Cross-Section in mm ²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
E9604C095EBEBK3	4G	95	49	5590
E9604C120EBEBK3	4G	120	53.6	6790
E9604C150EBEBK3	4G	150	58.7	8230
E9604C185EBEBK3	4G	185	65	9700
E9604C240EBEBK3	4G	240	74	13120
E9605C1.5EBDBK3	5G	1.5	11.5	230
E9605C2.5EBDBK3	5G	2.5	13.5	340
E9605C2.5EBGBK3	5	2.5	11.1	340
E9605C004EBDBK3	5G	4	15.9	470
E9605C006EBDBK3	5G	6	17.9	630
E9605C010EBDBK3	5G	10	22.3	1150
E9605C016EBDBK3	5G	16	26.9	1540
E9605C025EBDBK3	5G	25	32.5	2200
E9605C035EBDBK3	5G	35	38	2700
E9605C050EBDBK3	5G	50	44.5	3950
E9605C070EBDBK3	5G	70	47	4893
E9605C095EBDBK3	5G	95	58	6600
E9605C120EBDBK3	5G	120	61	8051
E9605C150EBDBK3	5G	150	73	10500
E9607C1.5EKKBK3	7G	1.5	14.5	370
E9607C2.5EKKBK3	7G	2.5	17	520
E9607C004EKKBK3	7G	4	25.8	697
E9612C1.5EKKBK3	12G	1.5	18.3	450
E9612C2.5EKKBK3	12G	2.5	19	750
E9618C2.5EKKBK3	18G	2.5	26	1032
E9619C1.5EKKBK3	19G	1.5	23.5	800
E9619C2.5EKKBK3	19G	2.5	26.6	1068
E9624C1.5EKKBK3	24G	1.5	25.5	1000
E9624C2.5EKKBK3	24G	2.5	31.5	1380
E9625C1.5EKKBK3	25G	1.5	26	889
E9627C1.5EKKBK3	27G	1.5	-	973
E9627C2.5EKKBK3	27G	2.5	-	1365

Electrical characteristics

Number of elements	Size Cross-Section in mm ²	Max. conductor resistance, Ohm/km	Ampacity in air, in Amperes	Tensile strength during installation, Newton
1	1.5	13.3	18	23
1	2.5	7.98	22	38
1	4	4.95	30	60
1	6	3.3	38	90
1	10	1.91	53	150
1	16	1.21	71	240
1	25	0.78	94	375
1	35	0.554	117	525
1	50	0.386	148	750
1	70	0.272	185	1050
1	95	0.206	222	1425
1	120	0.161	260	1800
1	150	0.129	300	2250
1	185	0.106	341	2750
1	240	0.0801	407	3600
1	300	0.0641	468	4500
1	400	0.0486	553	60
1	630	0.0287	742	9450
2	1	19.5	15	30
2	1.5	13.3	18	45
2	2.5	7.98	26	75
2	4	4.95	34	120
2	6	3.3	43	180
3	1	19.5	15	45
3G	1	19.5	15	45
3	1.5	13.3	16	68

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3G	1.5	13.3	16	68
3	2.5	7.98	21	113
3G	2.5	7.98	21	113
3G	4	4.95	29	180
3	6	3.3	36	270
3G	6	3.3	36	270
3	10	1.9	51	450
3G	10	1.91	51	450
3	16	1.21	67	720
3G	16	1.21	67	720
3	25	0.78	89	1125
3G	25	0.78	89	1125
3	35	0.554	110	1575
3G	35	0.554	110	1575
3G	50	0.386	138	2250
4G	1	19.5	15	60
4G	1.5	13.3	16	90
4G	2.5	7.98	21	150
4G	4	4.95	29	240
4G	6	3.3	36	260
4	10	1.91	51	600
4G	10	1.91	51	600
4	16	1.21	67	960
4G	16	1.21	67	960
4	25	0.78	89	1500
4G	25	0.78	89	1500
4G	35	0.554	110	2100
4G	50	0.386	138	3000
4G	70	0.272	172	4200
4G	95	0.206	222	5700
4G	120	0.161	238	7200
4G	150	0.129	273	9000
4G	185	0.106	309	11100
4G	240	0.0801	365	14400
5G	1.5	13.3	16	113
5G	2.5	7.98	21	188
5	2.5	-	-	-
5G	4	4.95	29	300
5G	6	3.3	36	450
5G	10	1.91	51	750
5G	16	1.21	67	1200
5G	25	0.78	89	1875
5G	35	0.554	110	2625
5G	50	0.386	138	3750
5G	70	0.272	172	5250
5G	95	0.206	204	7125
5G	120	0.161	238	9000
5G	150	0.129	273	11250
7G	1.5	13.3	16	158
7G	2.5	7.98	21	263
7G	4	4.95	29	420
12G	1.5	13.3	16	270
12G	2.5	7.98	21	450
18G	2.5	7.98	21	675
19G	1.5	13.3	16	428
19G	2.5	7.98	21	713
24G	1.5	13.3	16	540
24G	2.5	7.98	21	900
25G	1.5	13.3	16	563
27G	1.5	13.3	16	607
27G	2.5	7.98	21	1012

NOTICE

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