



General rubber flexible cables

H07BN4-F

Heat-Resistant Rubber Cable

Harmonised 450/750 V +90 °C EI7 EPR-insulated and EM7 CSP heavy-duty HOFR cable



EN 50525-2-21

U0/U 450/750 V

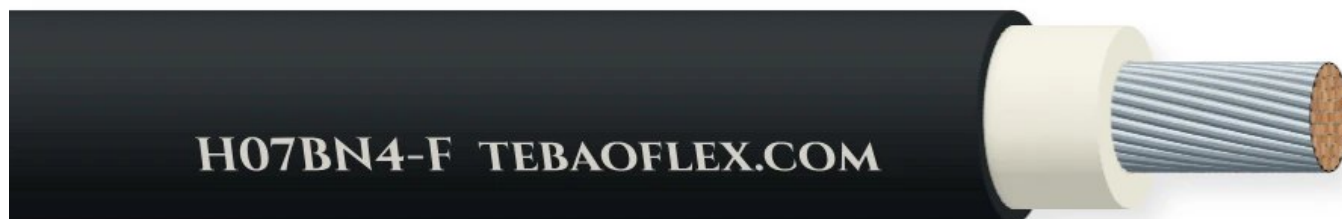
+90 °C EI7 · EM7 HOFR

Application

Heavy-duty 450/750 V (0.6/1 kV fixed protected) heat-resistant flexible rubber cable to EN 50525-2-21 with Class 5 copper conductors, +90 °C EI7 EPR core insulation and EM7 CSP (HOFR) outer sheath for generators, loadbanks, welding sets and hot plant.

Typical uses: Generator rental & loadbank leads, Steelworks, foundries & boiler plant, Heavy construction & quarry power, Shipyards, dry docks & port power, Transformer & motor hook-up leads

Construction



Cross-section, not to scale

1	Flexible copper conductor	EN 60228 Class 5
2	Separator tape	
3	Heat-resistant EPR insulation	EN 50363-1 EI7
4	Heavy-duty HOFR outer sheath	

Technical data

Typical values

Rated voltage U0/U	450/750 V AC (0.6/1 kV fixed protected)
AC test voltage	2500 V AC (50 Hz, 15 min)
Current rating basis	DIN VDE 0298-4 / BS 7671 (+90 °C thermoset rating)
Short-circuit temperature	+250 °C max. (up to 5 s)
Temperature, fixed	−40 °C to +90 °C
Min. bending radius, moving	6 × OD (OD ≤ 25 mm) · 8 × OD (OD > 25 mm)
Mechanical impact class	Heavy mechanical duty (EN 50565-2)
Flame retardance	IEC 60332-1-2 / EN 60332-1-2 self-extinguishing
Water exposure	AD6/AD7 outdoor rain, washdown and temporary immersion
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends

Max. operating voltage	495/825 V AC (up to 1000 V AC protected)
Conductor stranding	IEC 60228 Class 5 fine-stranded copper
Max. conductor temperature	+90 °C continuous operation
Temperature, flexing	−25 °C to +90 °C
Min. bending radius, fixed	4 × OD (OD ≤ 25 mm) · 6 × OD (OD > 25 mm)
Max. tensile load	15 N/mm ² dynamic (50 N/mm ² static)
Oil & fuel resistance	EN 60811-404 mineral oils, diesel & hydraulic fluids (EM7)
Heat & ozone endurance	EM7 CSP sheath resists +90 °C thermal ageing & EN 60811-403 ozone
Standards	EN 50525-2-21 (HD 22.12 S2 / BS 7919 / DIN VDE 0285-525-2-21)

Sizes

23 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
Single-core H07BN4-F power & loadbank leads (16–240 mm ²) 8 sizes							
☐ H07BN4-F 1×16	1×16	6	9.9	10.8	154	235	43
☐ H07BN4-F 1×35	1×35	2	13.2	14.3	336	445	57
☐ H07BN4-F 1×50	1×50	1	15.2	16.5	480	620	66
☐ H07BN4-F 1×70	1×70	2/0	17.1	18.6	672	835	74
☐ H07BN4-F 1×95	1×95	3/0	19.3	21.0	912	1,110	84
☐ H07BN4-F 1×120	1×120	4/0	21.3	23.2	1,152	1,380	93
☐ H07BN4-F 1×185	1×185	350 kcmil	25.8	28.0	1,776	2,060	112
☐ H07BN4-F 1×240	1×240	500 kcmil	29.0	31.5	2,304	2,650	126
Multicore H07BN4-F heavy-duty power & control cables (3G1.5–4G50) 15 sizes							
☐ H07BN4-F 3G1.5	3G1.5	16	9.0	9.8	43	135	39
☐ H07BN4-F 4G1.5	4G1.5	16	9.9	10.8	58	168	43
☐ H07BN4-F 5G1.5	5G1.5	16	10.9	11.9	72	205	48
☐ H07BN4-F 3G2.5	3G2.5	14	10.7	11.6	72	198	46
☐ H07BN4-F 4G2.5	4G2.5	14	11.8	12.8	96	245	51
☐ H07BN4-F 5G2.5	5G2.5	14	13.1	14.2	120	305	57
☐ H07BN4-F 4G4	4G4	12	13.6	14.8	154	355	59
☐ H07BN4-F 5G4	5G4	12	15.1	16.4	192	438	66
☐ H07BN4-F 4G6	4G6	10	15.5	16.8	230	485	67
☐ H07BN4-F 5G6	5G6	10	17.3	18.8	288	598	75
☐ H07BN4-F 4G10	4G10	8	20.1	21.8	384	845	87
☐ H07BN4-F 4G16	4G16	6	23.2	25.2	614	1,190	101
☐ H07BN4-F 4G25	4G25	4	28.0	30.4	960	1,760	122
☐ H07BN4-F 4G35	4G35	2	31.5	34.2	1,344	2,320	137

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
☐ H07BN4-F 4G50	4G50	1	36.4	39.6	1,920	3,190	158

– Dimensions and weights are typical values per EN 50525-2-21 (HD 22.12). Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

14 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
1.5	16	13.3	23	18
2.5	14	7.98	30	25
4	12	4.95	41	34
6	10	3.3	53	44
10	8	1.91	74	61
16	6	1.21	99	82
25	4	0.78	131	108
35	2	0.554	162	135
50	1	0.386	202	168
70	2/0	0.272	250	207
95	3/0	0.206	301	250
120	4/0	0.161	352	292
185	350 kcmil	0.106	461	382
240	500 kcmil	0.08	540	453

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

✓ EN 50525-2-21 (HD 22.12)

✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/h07bn4-f-heat-resistant-rubber-cable



Typical values for this cable type, based on EN 50525-2-21 (HD 22.12). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.