

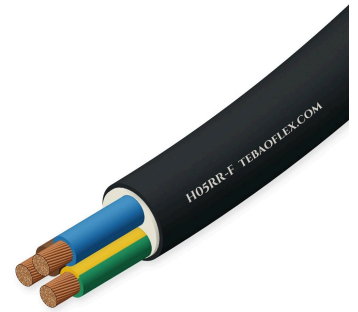


General rubber flexible cables

H05RR-F

Rubber Flexible Cable

Harmonised 300/500 V EI4 EPR-insulated and EM1 rubber-sheathed indoor appliance cord



EN 50525-2-21

U0/U 300/500 V

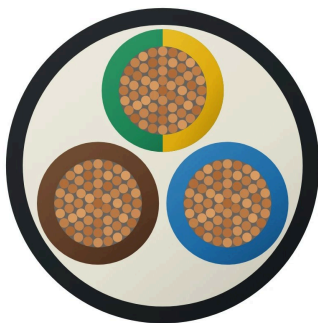
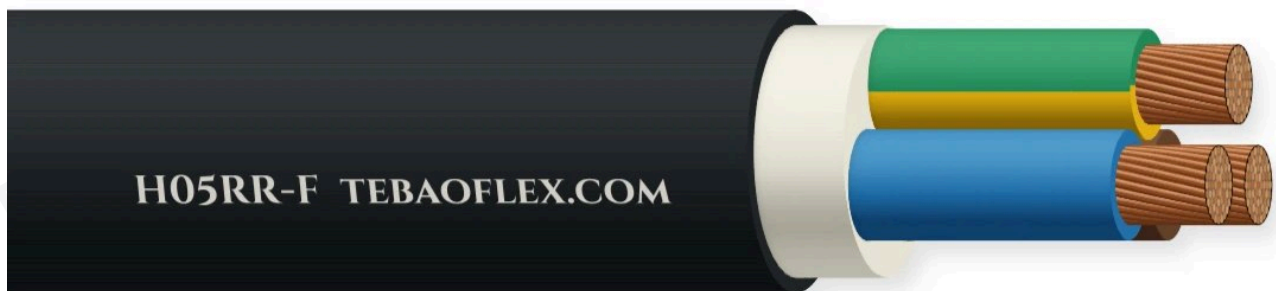
EI4 EPR · EM1 Rubber

Application

Flexible Class 5 bare copper cord with cross-linked EI4 EPR core insulation and ordinary-duty EM1 natural/synthetic elastomer outer sheath per EN 50525-2-21 for portable household appliances, light workshop tools and office or inspection equipment.

Typical uses: Portable electric hand tools, Household & kitchen appliances, Workshop inspection & test leads, Light commercial maintenance gear, Dry & damp indoor installations

Construction



Cross-section, not to scale

- 1 Flexible copper conductor
- 2 Elastomeric core insulation
- 3 Outer rubber sheath

EN 60228 Class 5

EN 50363-1 EI4 (+60 °C)

EN 50363-2-1 EM1 · ordinary mechanical duty

Technical data

Typical values

Rated voltage U ₀ /U	300/500 V AC	Max. operating voltage	330/550 V AC
AC test voltage	2000 V AC (50 Hz, 15 min)	Conductor stranding	IEC 60228 Class 5 fine-stranded bare copper
Current rating basis	DIN VDE 0298-4 / EN 50565-1 at 30 °C ambient	Max. conductor temperature	+60 °C continuous operation
Short-circuit temperature	+200 °C max. (up to 5 s)	Temperature, flexing	–25 °C to +60 °C
Temperature, fixed	–30 °C to +60 °C	Min. bending radius, fixed	3 × OD (OD ≤ 12 mm) · 4 × OD (OD > 12 mm)
Min. bending radius, moving	6 × overall diameter (free movement)	Max. tensile load	15 N/mm ² dynamic (50 N/mm ² static)
Mechanical duty class	Light mechanical duty in dry or damp interiors	Flame retardance	IEC 60332-1-2 / EN 60332-1-2 self-extinguishing
Oil & chemical note	EM1 sheath not oil-resistant (use H05RN-F for oil contact)	Low-temperature elasticity	Remains supple down to –25 °C without PVC stiffening
Outdoor exposure	Temporary outdoor use only (not for permanent UV/immersion)	Standards	EN 50525-2-21 (HD 22.4 S4 / DIN VDE 0285-525-2-21)
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

18 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
Harmonised H05RR-F sizes (0.75–6 mm ² per EN 50525-2-21 Table B.1) 18 sizes							
☐ H05RR-F 2×0.75	2×0.75	18	5.7	6.2	14	50	25
☐ H05RR-F 3G0.75	3G0.75	18	6.2	6.7	22	62	27
☐ H05RR-F 4G0.75	4G0.75	18	6.7	7.3	29	75	29
☐ H05RR-F 5G0.75	5G0.75	18	7.5	8.1	36	92	32
☐ H05RR-F 2×1.0	2×1.0	17	6.1	6.6	19	59	26
☐ H05RR-F 3G1.0	3G1.0	17	6.5	7.1	29	73	28
☐ H05RR-F 4G1.0	4G1.0	17	7.2	7.8	38	90	31
☐ H05RR-F 5G1.0	5G1.0	17	7.9	8.6	48	110	34
☐ H05RR-F 2×1.5	2×1.5	16	7.5	8.2	29	92	33
☐ H05RR-F 3G1.5	3G1.5	16	8.2	8.9	43	114	36
☐ H05RR-F 4G1.5	4G1.5	16	9.1	9.9	58	142	40
☐ H05RR-F 5G1.5	5G1.5	16	10.0	10.9	72	175	44
☐ H05RR-F 3G2.5	3G2.5	14	9.8	10.6	72	166	42
☐ H05RR-F 4G2.5	4G2.5	14	10.7	11.6	96	205	46
☐ H05RR-F 5G2.5	5G2.5	14	11.9	12.9	120	252	52
☐ H05RR-F 4G4	4G4	12	12.5	13.6	154	305	54
☐ H05RR-F 5G4	5G4	12	13.9	15.1	192	378	60
☐ H05RR-F 5G6	5G6	10	15.8	17.2	288	515	69

– Dimensions and weights are typical values per EN 50525-2-21 / IEC 60245-4. Minimum fixed bending radius shown is 4 × OD.

Electrical & current ratings

6 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
0.75	18	26	12	10
1	17	19.5	15	13
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

– 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 / IEC 60245-4

✓ 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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/h05rr-f-rubber-flexible-cable



Typical values for this cable type, based on EN 50525-2-21 / IEC 60245-4. Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.