



EN 50525 Harmonised Rubber Cables

H05RNH2-F

Flat Rubber Festoon and Decorative Illumination String

EN 50525-2-82 · 300/500 V · Flat profile ('H2') · EPR Type EI4 · Polychloroprene Type EM2



EN 50525-2-82

300/500 V

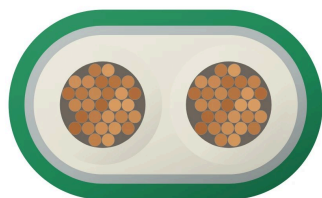
Flat Illumination 'H2'

Application

H05RNH2-F is the European harmonised 300/500 V flat rubber illumination chain and festoon cable manufactured to EN 50525-2-82 (formerly HD 22.14 / VDE 0282-14). Its calibrated 13.0 × 5.0 mm flat rectangular profile ('H2') accepts standard pin-piercing E27

Typical uses: Temporary Construction & Tunnel Lighting, Architectural & Event Illumination, Municipal Holiday & Street Garlands, Theme Parks & Outdoor Hospitality, Shipyard & Maintenance Walkway Lighting

Construction



Cross-section, not to scale

1	Flexible copper conductor ('-F')	EN 60228 Class 5
2	EPR rubber insulation ('R')	EN 50363-1
3	Parallel flat twin arrangement ('H2')	EN 50525-2-82
4	Calibrated flat polychloroprene sheath	EN 50363-2-1 / EN 50525-2-82

Technical data

Typical values

Rated voltage U ₀ /U	300/500 V AC
Current rating (1.5 / 2.5 mm ²)	16 A / 25 A in free air
Insulation compound	Type EI4 cross-linked EPR
Max. conductor operating temp.	+60 °C (EN 50525-2-82) / +85 °C EPR
Mobile / catenary ambient	-25 °C to +60 °C
Max. outer surface temperature	+50 °C touch-safe
Nominal flat profile (W × H)	13.0 × 5.0 mm (±0.2 mm tolerance)
Max. catenary tensile load	15 N/mm ² on copper conductors
Sheath compound	Type EM2 polychloroprene (PCP)
Flame retardance	EN 60332-1-2 vertical flame test
UV & outdoor weathering	Permanent outdoor catenary rated
Water & rain splash	Seals tightly around piercing pins
Standards	EN 50525-2-82 / VDE 0285-525-2-82

Routine AC test voltage	2.0 kV rms / 5 min
Conductor resistance class	EN 60228 Class 5
Operating frequency	50 / 60 Hz & DC
Max. short-circuit temperature	+200 °C (max. 5 s)
Fixed installation ambient	-40 °C to +60 °C
Min. installation temperature	-25 °C
Min. bend radius (flat axis)	4 × cable height (H)
Lampholder contact method	Insulation-displacement piercing pins
Impact & weather durability	Outdoor IP44/IP65 string compatible
Oil & grease resistance	EN 60811-404 Type EM2 PCP
Ozone resistance	EN 60811-403 ozone-proof EI4/EM2
RoHS / REACH status	CE & RoHS 3 compliant

Sizes

8 standard constructions

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

Order designation	Configuration	Phase size mm ²	Flat W×H ≈ mm (eq. Ø)	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard H05RNH2-F configurations 8 sizes						
☐ H05RNH2-F 2×1.5 Black (13.0×5.0 mm)	2×1.5 (Black)	1.5	9.1	29	115	36
☐ H05RNH2-F 2×1.5 Green (13.0×5.0 mm)	2×1.5 (Green)	1.5	9.1	29	115	36
☐ H05RNH2-F 2×1.5 Yellow (13.0×5.0 mm)	2×1.5 (Yellow)	1.5	9.1	29	115	36
☐ H05RNH2-F 2×1.5 White (13.0×5.0 mm)	2×1.5 (White)	1.5	9.1	29	115	36
☐ H05RNH2-F 2×2.5 Black (13.0×5.0 mm)	2×2.5 (Black)	2.5	9.1	48	135	36
☐ H05RNH2-F 2×2.5 Green (13.0×5.0 mm)	2×2.5 (Green)	2.5	9.1	48	135	36
☐ H05RNH2-F 2×2.5 Yellow (13.0×5.0 mm)	2×2.5 (Yellow)	2.5	9.1	48	135	36
☐ H05RNH2-F 2×2.5 White (13.0×5.0 mm)	2×2.5 (White)	2.5	9.1	48	135	36

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per EN 50525-2-82 / VDE 0285-525-2-82.

Electrical & ampacity data

8 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V _{rms}
2×1.5 (Black)	13.300	19	16	80	2,000
2×1.5 (Green)	13.300	19	16	80	2,000
2×1.5 (Yellow)	13.300	19	16	80	2,000
2×1.5 (White)	13.300	19	16	80	2,000
2×2.5 (Black)	7.980	26	22	82	2,000
2×2.5 (Green)	7.980	26	22	82	2,000
2×2.5 (Yellow)	7.980	26	22	82	2,000

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V rms
2×2.5 (White)	7.980	26	22	82	2,000

– Current ratings apply at +25/+30 °C ambient in free air; apply standard derating factors for elevated ambient or drum coiling.

Standards and approvals

✓ EN 50525-2-82 / HAR

✓ EN 60598-2-20

✓ CE / RoHS

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/h05rnH2-f-flat-rubber-festoon-and-decorative-illumination-string-cable



Typical values for this cable type, based on EN 50525-2-82 / VDE 0285-525-2-82. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.