



High-temperature wires & cables

FEP Hook-Up Wire (NEMA HP 4 / UL)

FEP High-Temperature Hook-Up Wire (NEMA HP 4 & UL 1330 / 1332 / 10203)

250–1,000 V 200 °C melt-extruded FEP appliance, heater & panel hook-up wire



NEMA HP 4 & UL 758

250–1,000 V · 200 °C

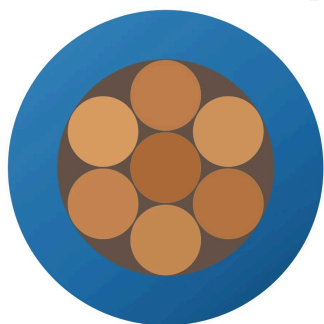
Extruded FEP

Application

High-temperature single-core hook-up wire with melt-extruded FEP insulation across ANSI/NEMA HP 4 Types KT (250 V), K (600 V), KK (1,000 V) and UL 758 AWM Styles 1332 (300 Vac), 1330 (600 Vac) and 10203 (1,000 Vac) up to +200 °C.

Typical uses: Commercial ovens, heaters & igniters, Control panels & switchgear internal wiring, Medical & laboratory sterilisers, Chemical & analytical instrumentation, High-temperature lighting luminaires, Semiconductor wet-bench equipment

Construction



Cross-section, not to scale

1	Annealed copper conductor core	ANSI/NEMA HP 4 & UL 758
2	Tin, silver or nickel plating barrier	ANSI/NEMA HP 4-2021
3	Extruded FEP insulation	NEMA HP 4 / UL 758

Technical data

Typical values

Rated voltage by style	250 V RMS (NEMA HP 4 Type KT) · 300 Vac (UL 1332) · 600 V (NEMA HP 4 Type K & UL 1330) · 1,000 V (NEMA HP 4 Type KK & UL 10203)	Dielectric constant & test voltage	Dielectric constant ~2.1 (1 kHz–1 GHz) · ≥ 1.5 kV (KT/1332), ≥ 2.0 kV (K/1330), ≥ 3.0 kV (KK/10203) AC dielectric test
Conductor & plating options	Solid or concentric-stranded copper: tin-plated (up to 150 °C in NEMA HP 4; 200 °C in UL 1330/1332), silver-plated or nickel-plated (200 °C)	Operating temperature range	–70 °C to +200 °C continuous (UL 1330, UL 1332, UL 10203 & silver/nickel NEMA HP 4; +150 °C for tin-plated NEMA HP 4)
Continuous melt-extrusion advantage	Thermoplastic melt-extruded FEP enables long splice-free spool lengths up to +200 °C	Nominal FEP wall thickness by style	Type KT: 0.006 in (0.15 mm) thin wall · Type K: 0.010 in (0.25 mm) medium wall · Type KK: 0.015 in (0.38 mm) thick wall · UL 1332: 0.013 in (0.33 mm) · UL 1330 / 10203: 0.020 in (0.51 mm) heavy wall
Minimum bending radius	6 × OD fixed; 10 × OD flexing	Flame & chemical resistance	UL VW-1 vertical flame retardant; chemically inert to acids, alkalis, solvents, fuels, hydraulic oils and moisture
Moisture & UV weatherability	Water absorption < 0.01%; immune to UV, ozone, fungi and outdoor weathering	Standards	ANSI/NEMA HP 4-2021 (Types KT, K, KK; ex MIL-W-16878/11, /12, /13); UL 758 AWM Styles 1330, 1332, 10203

Sizes

17 standard constructions

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

Style · AWG size	Rated voltage	Temp. rating	Stranding (count/AWG)	CSA ≈ mm ²	Cond. Ø mm	FEP wall mm	Nominal OD mm	Mass ≈ kg/km	Max. DC res. (20 °C) Ω/km
ANSI/NEMA HP 4-2021 · Types KT (250 V), K (600 V) & KK (1,000 V) 10 sizes									
☐ NEMA HP 4 Type KT · 28 AWG	250 V	150/200 °C	7/36	0.089	0.38	0.15	0.69	1.3	213.0
☐ NEMA HP 4 Type KT · 24 AWG	250 V	150/200 °C	19/36	0.241	0.61	0.15	0.91	2.9	84.0
☐ NEMA HP 4 Type KT · 20 AWG	250 V	150/200 °C	19/32	0.616	0.97	0.15	1.27	6.5	32.3
☐ NEMA HP 4 Type K · 24 AWG	600 V	150/200 °C	19/36	0.241	0.61	0.25	1.12	3.6	84.0
☐ NEMA HP 4 Type K · 22 AWG	600 V	150/200 °C	19/34	0.382	0.76	0.25	1.27	5.1	52.5
☐ NEMA HP 4 Type K · 20 AWG	600 V	150/200 °C	19/32	0.616	0.97	0.25	1.47	7.4	32.3
☐ NEMA HP 4 Type K · 16 AWG	600 V	150/200 °C	19/29	1.23	1.37	0.25	1.96	14.1	15.8
☐ NEMA HP 4 Type K · 12 AWG	600 V	150/200 °C	19/25	3.08	2.18	0.25	2.74	31.8	6.3
☐ NEMA HP 4 Type KK · 20 AWG	1,000 V	150/200 °C	19/32	0.616	0.97	0.38	1.73	9.1	32.3
☐ NEMA HP 4 Type KK · 14 AWG	1,000 V	150/200 °C	19/27	1.94	1.70	0.38	2.46	22.8	9.9
UL 758 AWM · Style 1332 (300 Vac), Style 1330 (600 Vac) & Style 10203 (1,000 Vac) 7 sizes									
☐ UL AWM 1332 · 24 AWG	300 Vac	200 °C	7/32	0.22	0.61	0.33	1.27	4.0	89.4
☐ UL AWM 1332 · 20 AWG	300 Vac	200 °C	7/28	0.56	0.97	0.33	1.63	8.0	35.2
☐ UL AWM 1332 · 16 AWG	300 Vac	200 °C	19/29	1.23	1.50	0.33	2.16	15.5	15.8
☐ UL AWM 1330 · 20 AWG	600 Vac	200 °C	7/28	0.56	0.97	0.51	1.98	10.6	35.2
☐ UL AWM 1330 · 16 AWG	600 Vac	200 °C	19/29	1.23	1.50	0.51	2.51	18.8	15.8
☐ UL AWM 1330 · 12 AWG	600 Vac	200 °C	19/25	3.08	2.36	0.51	3.38	37.5	6.3
☐ UL AWM 10203 · 10 AWG	1,000 Vac	200 °C	37/26	4.74	2.95	0.51	3.96	55.2	4.1

– Additional gauges from 32 AWG up to 4/0 AWG and solid-conductor variants are manufactured to order across all six NEMA HP 4 and UL 758 style routes.

Standards and approvals

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/fep-high-temperature-hook-up-wire



Typical values for this cable type, based on ANSI/NEMA HP 4 & UL 758. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.