

Electrical Wire Ordering Info:

Example : HP

3 E - X B G E 9

NEMA Type

Construction

X — Extruded

W — Wrapped (HP3 only)

Conductor material	
B	Silver plated copper
C	Nickel plated copper
D	Silver plated high-strength alloy
E	Nickel plated high-strength alloy
F	Silver plated copper clad steel
G	Nickel plated copper clad steel
H	Tin plated copper (HP4 only)

AWG Size	
B	30
C	28
D	26
E	24
F	22
G	20
H	18
J	16
K	14
L	12
M	10
N	8
P	6
R	4
S	2
T	1
U	1/0
W	2/0
Y	3/0
Z	4/0

Stranding	
A	1
B	7
E	19
G	37
L	133
P	665
R	817
S	1045
T	1330
V	1665
W	2109

Color Code	
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Violet
8	Gray

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CAUTION

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CASFLON™ NEMA

HP3 Type E, EE, ET

-65°C to +200°C or 260°C, 250-600V



Construction

Type: electrical wire

Core: silver-plated copper or nickel plated copper

Insulation: extruded PTFE

Production

Range width: AWG 28 to 6

Options: contact us for more options

Application

Aviation: Electrical lightweight cables used in electronic equipment for aircraft, missile systems or aeronautical test benches

General characteristics

Weather conditions: excellent resistance to UV

Chemical behaviors: excellent resistance to aggressive chemical environments

Humidity: excellent resistance to humidity

Mechanical behaviors: excellent mechanical strength

Thermal characteristics

Operating temperature: SPC: -65°C to +200°C

NPC: -65°C to +260°C

Electrical characteristics

Operating Voltage: Type E: 600V

Type EE: 1000V

Type ET: 250V

Approvals – Standards

NEMA standard: NEMA HP3 Type E, EE, Et ex. MIL-W-16878/ 4 / 5 / 6 / 23 / 25 / 27

UL : XE 18 awg & smaller dual rated to UL1213

XEE 18 awg & smaller dual rated to UL1180

Type E, ex. MIL-W-16878/4 600V

CASMO.P.N	AWG/Stranding	Insulation Thickness		O.D.		Weight	
		(inch)	(mm)	(inch)	(mm)	(lbs/mft)	(kg/km)
HP3E-XBCB	28 7/36	0.01	0.254	0.035	0.89	2	2.98
HP3E-XBDA	26 1/26	0.01	0.254	0.036	0.91	2	2.98
HP3E-XBDB	26 7/34	0.01	0.254	0.039	0.99	2	2.98
HP3E-XBDE	26 19/38	0.01	0.254	0.039	0.99	2	2.98
HP3H-XBEA	24 1/24	0.01	0.254	0.04	1.02	3	4.46
HP3E-XBEB	24 7/32	0.01	0.254	0.044	1.12	3	4.46
HP3E-XBEE	24 19/36	0.01	0.254	0.045	1.14	3	4.46
HP3E-XBFA	22 1/22	0.01	0.254	0.045	1.14	4	5.95
HP3E-XBFB	22 7/30	0.01	0.254	0.05	1.27	4	5.95
HP3E-XBFE	22 19/34	0.01	0.254	0.051	1.30	4	5.95
HP3E-XBGA	20 1/20	0.01	0.254	0.052	1.32	5	7.44
HP3E-XBGB	20 7/28	0.01	0.254	0.058	1.47	5	7.44
HP3E-XBGE	20 19/32	0.01	0.254	0.058	1.47	6	8.93
HP3E-XBHB	18 7/26	0.01	0.254	0.069	1.75	8	11.90
HP3E-XBHE	18 19/30	0.01	0.254	0.069	1.75	8	11.90
HP3E-XBJE	16 19/29	0.013	0.330	0.08	2.03	10	14.88
HP3E-XBKE	14 19/27	0.013	0.330	0.095	2.41	15	22.32
HP3E-XBLE	12 19/25	0.015	0.381	0.114	2.90	23	34.23
HP3E-XBMG	10 37/26	0.013	0.330	0.134	3.40	35	52.08

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CASFLON™ NEMA

HP3 Type E, EE, ET

-65°C to +200°C or 260°C, 250-600V



Type EE, ex. MIL-W-16878/5 1000V

CASMO .P.N	AWG/Stranding	Insulation Thickness		O.D.		Weight	
		(inch)	(mm)	(inch)	(mm)	(lbs/mft)	(kg/km)
HP3EE-XBCB	28 7/36	0.015	0.381	0.045	1.143	2	3
HP3EE-XBDA	26 1/26	0.015	0.381	0.046	1.1684	2	3
HP3EE-XBDB	26 7/34	0.015	0.381	0.049	1.2446	2	3
HP3EE-XBDE	26 19/38	0.015	0.381	0.049	1.2446	2	3
HP3EE-XBEA	24 1/24	0.015	0.381	0.05	1.27	3	4
HP3EE-XBEB	24 7/32	0.015	0.381	0.054	1.3716	3	4
HP3EE-XBEE	24 19/36	0.015	0.381	0.055	1.397	3	4
HP3EE-XBFA	22 1/22	0.015	0.381	0.055	1.397	4	6
HP3EE-XBFB	22 7/30	0.015	0.381	0.06	1.524	4	6
HP3EE-XBFE	22 19/34	0.015	0.381	0.061	1.5494	5	7
HP3EE-XBGA	20 1/20	0.015	0.381	0.062	1.5748	6	9
HP3EE-XBGB	20 7/28	0.015	0.381	0.068	1.7272	6	9
HP3EE-XBGE	20 19/32	0.015	0.381	0.068	1.7272	7	10
HP3EE-XBHB	18 7/26	0.015	0.381	0.079	2.0066	9	13
HP3EE-XBHE	18 19/30	0.015	0.381	0.079	2.0066	9	13
HP3EE-XBJE	16 19/29	0.018	0.457	0.089	2.2606	11	16
HP3EE-XBKE	14 19/27	0.018	0.457	0.106	2.6924	17	25
HP3EE-XBKE	12 19/25	0.021	0.533	0.125	3.175	24	36
HP3EE-XBMG	10 37/26	0.019	0.483	0.145	3.683	35	52
HP3EE-XBNL	8 133/27	0.024	0.610	0.209	5.3086	68	101
HP3EE-XBPL	6 133/29	0.028	0.711	0.263	6.6802	107	159

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HP3 Type E, EE, ET

-65°C to +200°C or 260°C, 250-600V



Type ET, ex. MIL-W-16878/6 250V

CASMO .P.N	AWG/Stranding	Insulation Thickness		O.D.		Weight	
		(inch)	(mm)	(inch)	(mm)	(lbs/mft)	(kg/km)
HP3ET-XBCB	28 7/36	0.006	0.152	0.027	0.69	1	1.49
HP3ET-XBDA	26 1/26	0.006	0.152	0.028	0.71	2	2.98
HP3ET-XBDB	26 7/34	0.006	0.152	0.031	0.79	2	2.98
HP3ET-XBDE	26 19/38	0.006	0.152	0.031	0.79	2	2.98
HP3ET-XBEA	24 1/24	0.006	0.152	0.032	0.81	3	4.46
HP3ET-XBEB	24 7/32	0.006	0.152	0.036	0.91	3	4.46
HP3ET-XBEE	24 19/36	0.006	0.152	0.036	0.91	3	4.46
HP3ET-XBFA	22 1/22	0.006	0.152	0.038	0.97	3	4.46
HP3ET-XBFB	22 7/30	0.006	0.152	0.042	1.07	3	4.46
HP3ET-XBFE	22 19/34	0.006	0.152	0.042	1.07	4	5.95
HP3ET-XBGA	20 1/20	0.006	0.152	0.044	1.12	5	7.44
HP3ET-XBGB	20 7/28	0.006	0.152	0.05	1.27	5	7.44
HP3ET-XBGE	20 19/32	0.006	0.152	0.05	1.27	5	7.44

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