

E

PTFE NEMA HP-3

600V AC

-65°C / +200°C

Construction

Wire	Silver Plated Copper (SPC)				Insulation	PTFE	Voltage		600/1000V AC U ₀ /U			
							Test voltage		3400V AC			
Colour (cc)	00 Black	11 Brown	22 Red	33 Orange	44 Yellow	55 Green	66 Blue	77 Violet	88 Grey	99 White	29 Pink	89 Clear

Description	Size		Conductor			Finished Core			Electrical	Article Number
	AWG	CSA	stranding	resistance	wire	core	tolerance	weight	amps at 40°C	
		mm²		Ω/km	Ø	Ø		g/m		
E 3201	32	0.03	1 × 0.203	544.60	0.20	0.74	± 0.10	1.10	3	512cc3201
E 3207		0.04	7 × 0.079	557.70	0.24	0.76	± 0.10	1.20		512cc3207
E 3001	30	0.05	1 × 0.254	347.80	0.25	0.76	± 0.10	1.30	4	512cc3001
E 3007		0.06	7 × 0.102	328.10	0.30	0.81	± 0.10	1.50		512cc3007
E 2801	28	0.08	1 × 0.320	218.80	0.32	0.84	± 0.10	1.70	6	512cc2801
E 2807		0.09	7 × 0.127	208.70	0.38	0.89	± 0.10	2.00		512cc2807
E 2601	26	0.13	1 × 0.404	137.50	0.40	0.91	± 0.10	2.30	8	512cc2601
E 2607		0.14	7 × 0.160	130.20	0.48	0.99	± 0.10	2.70		512cc2607
E 2619		0.16	19 × 0.102	122.40	0.48	1.00	± 0.10	2.80		512cc2619
E 2401	24	0.20	1 × 0.511	86.00	0.51	1.02	± 0.10	3.10	10	512cc2401
E 2407		0.22	7 × 0.203	80.40	0.60	1.12	± 0.10	3.70		512cc2407
E 2419		0.24	19 × 0.127	77.40	0.60	1.13	± 0.10	3.90		512cc2419
E 2201	22	0.32	1 × 0.643	54.10	0.64	1.15	± 0.10	4.40	14	512cc2201
E 2207		0.36	7 × 0.254	51.20	0.76	1.27	± 0.10	5.20		512cc2207
E 2219		0.38	19 × 0.160	48.60	0.76	1.30	± 0.10	5.50		512cc2219
E 2001	20	0.52	1 × 0.813	33.80	0.81	1.32	± 0.10	6.50	19	512cc2001
E 2007		0.56	7 × 0.320	32.20	0.96	1.47	± 0.10	7.50		512cc2007
E 2019		0.60	19 × 0.203	29.90	0.96	1.47	± 0.10	8.10		512cc2019
E 1801	18	0.82	1 × 1.024	21.40	1.02	1.54	± 0.10	9.60	27	512cc1801
E 1807		0.88	7 × 0.404	20.20	1.21	1.75	± 0.10	12.00		512cc1807
E 1819		0.96	19 × 0.254	19.00	1.20	1.75	± 0.10	12.00		512cc1819
E 1601	16	1.30	1 × 1.287	13.40	1.29	1.87	± 0.10	15.00	32	512cc1601
E 1619		1.23	19 × 0.287	14.90	1.36	2.03	± 0.10	16.00		512cc1619
E 1419	14	1.87	19 × 0.361	9.42	1.70	2.42	± 0.10	23.00	43	512cc1419
E 1219	12	3.02	19 × 0.455	5.94	2.14	2.90	± 0.10	33.00	59	512cc1219
E 1237		2.98	37 × 0.320	6.20	2.24	2.85	± 0.10	41.50		512cc1237

Application

PTFE is Habia Cable's foremost insulation material, intended for use up to 260°C. PTFE has excellent mechanical properties, including solder resistance and offers unparalleled electrical performance. Typical applications for PTFE include gas ignition wires, gas turbines, vacuum applications and high temperature data cables.

- Flame retardant: IEC 60332-1, IEC 60332-3-24
- Low smoke generation: IEC 61034-2
- RoHS compliant
- In accordance with: NEMA HP-3



E NPC

PTFE NEMA HP-3

600V AC

-65°C / +260°C

Construction

Wire	Nickel Plated Copper (NPC)				Insulation	PTFE	Voltage		600/1000V AC U ₀ /U			
							Test voltage		3400V AC			
Colour (cc)	00 Black	11 Brown	22 Red	33 Orange	44 Yellow	55 Green	66 Blue	77 Violet	88 Grey	99 White	29 Pink	89 Clear

Description	Size		Conductor			Finished Core			Electrical	Article Number
	AWG	CSA mm ²	stranding	resistance Ω/km	wire Ø	core Ø	tolerance	weight g/m	amps at 40°C	
E 3201 NPC	32	0.03	1 x 0.203	580.70	0.20	0.74	± 0.10	1.10	4	412cc3201
E 3207 NPC		0.04	7 x 0.079	610.20	0.24	0.76	± 0.10	1.20		412cc3207
E 3001 NPC	30	0.05	1 x 0.254	360.90	0.25	0.76	± 0.10	1.30	5	412cc3001
E 3007 NPC		0.06	7 x 0.102	360.90	0.30	0.81	± 0.10	1.50		412cc3007
E 2801 NPC	28	0.08	1 x 0.320	227.70	0.32	0.84	± 0.10	1.70	7	412cc2801
E 2807 NPC		0.09	7 x 0.127	221.80	0.38	0.89	± 0.10	2.00		412cc2807
E 2601 NPC	26	0.13	1 x 0.404	143.00	0.40	0.91	± 0.10	2.30	9	412cc2601
E 2607 NPC		0.14	7 x 0.160	138.50	0.48	0.99	± 0.10	2.70		412cc2607
E 2619 NPC	24	0.16	19 x 0.102	134.50	0.48	1.00	± 0.10	2.80	12	412cc2619
E 2401 NPC		0.20	1 x 0.511	89.60	0.51	1.02	± 0.10	3.10		412cc2401
E 2407 NPC	22	0.22	7 x 0.203	85.30	0.60	1.12	± 0.10	3.70	16	412cc2407
E 2419 NPC		0.24	19 x 0.127	82.70	0.60	1.13	± 0.10	3.90		412cc2419
E 2201 NPC	20	0.32	1 x 0.643	56.40	0.64	1.15	± 0.10	4.40	22	412cc2201
E 2207 NPC		0.36	7 x 0.254	53.10	0.76	1.27	± 0.10	5.20		412cc2207
E 2219 NPC	18	0.38	19 x 0.160	51.50	0.76	1.30	± 0.10	5.50	30	412cc2219
E 2001 NPC		0.52	1 x 0.813	35.40	0.81	1.32	± 0.10	6.50		412cc2001
E 2007 NPC	16	0.56	7 x 0.320	33.50	0.96	1.47	± 0.10	7.50	36	412cc2007
E 2019 NPC		0.60	19 x 0.203	31.80	0.96	1.47	± 0.10	8.10		412cc2019
E 1801 NPC	14	0.82	1 x 1.024	22.30	1.02	1.54	± 0.10	9.60	50	412cc1801
E 1807 NPC		0.88	7 x 0.404	21.10	1.21	1.75	± 0.10	12.00		412cc1807
E 1819 NPC	12	0.96	19 x 0.254	19.80	1.20	1.75	± 0.10	12.00	67	412cc1819
E 1601 NPC		1.30	1 x 1.287	14.00	1.29	1.87	± 0.10	15.00		412cc1601
E 1619 NPC	10	1.23	19 x 0.287	15.50	1.36	2.03	± 0.10	16.00	50	412cc1619
E 1419 NPC		1.87	19 x 0.361	9.81	1.70	2.42	± 0.10	23.00		412cc1419
E 1219 NPC	8	3.02	19 x 0.455	6.17	2.14	2.90	± 0.10	33.00	67	412cc1219
E 1237 NPC		2.98	37 x 0.320	6.46	2.24	2.85	± 0.10	41.50		412cc1237

Application

PTFE is Habia Cable's foremost insulation material, intended for use up to 260°C. PTFE has excellent mechanical properties, including solder resistance and offers unparalleled electrical performance. Typical applications for PTFE include gas ignition wires, gas turbines, vacuum applications and high temperature data cables.

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