

ETFE flame retardant, low smoke cores

1kV/150°C

H-ZZ xxxx TPC

H-ZZ xxxx

Key features:

Voltage rating: 1000/1900V
 Test voltage: 5000V
 Temperature range: -65°C / +150°C
 Radiation tolerant: 10⁵ Gy
 Flame retardant
 Low smoke generation
 RoHS Compliant
 Also referred to as: ZZ xxxx TPC
 ZZ xxxx

Application:

ETFE offers an excellent range of physical properties such as mechanical toughness, flex-life, fire performance and chemical resistance. ETFE cores are ideal for all-round general purpose use and are used extensively in both military and industrial applications.

Wire construction:

Conductor: H-ZZ xxxx TPC: Tin Plated Copper (TPC)
 H-ZZ xxxx: Silver Plated Copper (SPC)
 Insulation: Extruded ETFE

Prefix (AAA):

579
 569

Order reference (AAAccZZZZ):

Prefix: AAA (e.g. 579, see above) + colour code: cc (e.g. 00, see below) + size: ZZZZ (e.g. 3201, see table)

00	11	22	33	44	55	66	77	88	99	29	89	45
Black	Brown	Red	Orange	Yellow	Green	Blue	Violet	Grey	White	Pink	Clear	Yw/Gn

Description	Size		Conductor			Finished Wire			Electrical		Order reference
	AWG	CSA mm ²	stranding	resistance Ω/km	wire Ø	core Ø	tolerance	weight g/m	amps at 40°C TPC	amps at 40°C SPC	
H-ZZ 3201 ...	32	0,03	1 x 0,20	584,00	0,20	0,91	±0,05	1,2	2	2	AAAcc3201
H-ZZ 3207 ...	32	0,04	7 x 0,08	597,10	0,24	0,94	±0,05	1,2	2	2	AAAcc3207
H-ZZ 3001 ...	30	0,05	1 x 0,25	374,00	0,25	0,96	±0,05	1,5	3	3	AAAcc3001
H-ZZ 3007 ...	30	0,06	7 x 0,10	354,30	0,30	1,01	±0,05	1,5	3	3	AAAcc3007
H-ZZ 2801 ...	28	0,08	1 x 0,32	232,30	0,32	1,03	±0,05	2,0	4	4	AAAcc2801
H-ZZ 2807 ...	28	0,09	7 x 0,13	223,80	0,38	1,09	±0,05	2,0	4	4	AAAcc2807
H-ZZ 2601 ...	26	0,13	1 x 0,40	146,00	0,40	1,11	±0,05	2,6	6	6	AAAcc2601
H-ZZ 2607 ...	26	0,14	7 x 0,16	139,80	0,48	1,19	±0,05	2,7	6	6	AAAcc2607
H-ZZ 2619 ...	26	0,16	19 x 0,10	131,60	0,48	1,19	±0,05	2,8	6	6	AAAcc2619
H-ZZ 2401 ...	24	0,20	1 x 0,51	89,20	0,51	1,22	±0,05	3,5	9	9	AAAcc2401
H-ZZ 2407 ...	24	0,22	7 x 0,20	86,00	0,60	1,31	±0,05	3,7	9	9	AAAcc2407
H-ZZ 2419 ...	24	0,24	19 x 0,13	83,30	0,60	1,31	±0,05	3,9	9	9	AAAcc2419
H-ZZ 2201 ...	22	0,32	1 x 0,64	56,40	0,64	1,35	±0,05	5,0	12	12	AAAcc2201
H-ZZ 2207 ...	22	0,36	7 x 0,25	54,80	0,76	1,47	±0,05	5,2	12	12	AAAcc2207
H-ZZ 2219 ...	22	0,38	19 x 0,16	52,20	0,76	1,47	±0,05	5,5	12	12	AAAcc2219
H-ZZ 2001 ...	20	0,52	1 x 0,81	35,10	0,81	1,52	±0,05	6,8	16	16	AAAcc2001
H-ZZ 2007 ...	20	0,56	7 x 0,32	34,10	0,96	1,67	±0,05	7,5	16	16	AAAcc2007
H-ZZ 2019 ...	20	0,60	19 x 0,20	32,00	0,97	1,67	±0,05	8,1	16	16	AAAcc2019
H-ZZ 1819 ...	18	0,96	19 x 0,25	20,40	1,21	2,00	±0,08	12,0	22	22	AAAcc1819
H-ZZ 1619 ...	16	1,23	19 x 0,29	15,80	1,36	2,19	±0,13	16,0	27	27	AAAcc1619
H-ZZ 1419 ...	14	1,87	19 x 0,36	10,00	1,70	2,58	±0,13	20,0	37	37	AAAcc1419
H-ZZ 1219 ...	12	3,02	19 x 0,45	6,30	2,14	3,09	±0,16	33,0	50	50	AAAcc1219
H-ZZ 1037 ...	10	4,65	37 x 0,40	4,13	2,82	3,62	±0,16	55,0	69	69	AAAcc1037
H-ZZ 8133 ...	8	8,60	133 x 0,29	2,30	4,10	5,20	±0,21	95,0	109	109	AAAcc8133
H-ZZ 6133 ...	6	14,00	133 x 0,36	1,46	5,13	6,20	±0,30	140,0	150	150	AAAcc6133
H-ZZ 4133 ...	4	22,00	133 x 0,45	0,92	6,75	7,80	±0,40	225,0	207	207	AAAcc4133
H-ZZ 2665 ...	2	34,00	655 x 0,25	0,60	8,51	9,50	±0,50	335,0	tbc	tbc	AAAcc2665

Note: resistance values are for TPC. For accurate SPC values see Custom Design: Conductors: Resistance values: Table 3

De-rating Factors for Current Rating														
Temperature de-rating (°C)	10	20	30	40	50	60	70	80	90	100	110	120	130	140
	1.16	1.11	1.06	1.00	0.94	0.88	0.82	0.76	0.69	0.62	0.54	0.45	0.35	0.23
Multicore de-rating factor	2	3	4	6	8	10	12	16	20	24	28	32	36	40
	1.00	0.88	0.80	0.69	0.62	0.59	0.55	0.51	0.48	0.43	0.41	0.39	0.38	0.36

Note: All dimensions in mm and ±4% unless stated Date: 2011-01-27 Created: CJV Approved: TN Reference: EQ_ZZ_11
 Data provided indicates nominal values unless stated otherwise and is only valid for reference purposes at the time of publication and is subject to change without prior notice.