

TWI 205 flame retardant, low smoke cores

600V/200°C

H-H xxxx HSA

H-H xxxx

Key features:

Voltage rating: 600/1000V
Test voltage: 3000V
Temperature range: -65°C / +200°C
Flame retardant
Low smoke generation
RoHS Compliant
Also referred to as H xxxx

Application:

TWI 205 is an ultra-thin wall, polyimide taped insulation and jacketing material. Intended for applications up to 200°C.

Wire construction:

Conductor: H-H xxxx HSA: High Strength Copper Alloy (HSA)
H-H xxxx: Silver Plated Copper (SPC)
Insulation: Wrapped & sintered TWI 205 tape

Prefix (AAA):

534
514

Notes:

Following the EU Directive 2002/95/EC (RoHS), conductors historically described as 'TF' are now designated 'HSA'. There is no difference in performance as a result of this change.

Order reference (AAAccZZZZ):

Prefix: AAA (e.g. 534, see above) + colour code: cc (e.g. 00, see below) + size: ZZZZ (e.g. 3207, 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	stranding	resistance	wire Ø	core Ø	tolerance	weight	amps at 40°C	
		mm²		Ω/km				g/m		
H-H 3207 HSA	32	0,04	7 x 0,08	652,90	0,24	0,57	± 0,05	0,6	3	AAAcc3207
H-H 3001 HSA	30	0,05	1 x 0,25	406,80	0,25	0,58	± 0,05	0,8	5	AAAcc3001
H-H 3007 HSA	30	0,06	7 x 0,10	387,10	0,30	0,63	± 0,05	0,9	5	AAAcc3007
H-H 2801 HSA	28	0,08	1 x 0,32	257,20	0,32	0,65	± 0,05	1,2	7	AAAcc2801
H-H 2807 HSA	28	0,09	7 x 0,13	245,40	0,38	0,71	± 0,05	1,3	8	AAAcc2807
H-H 2601	26	0,13	1 x 0,40	137,50	0,40	0,73	± 0,05	1,9	10	AAAcc2601
H-H 2619 ...	26	0,16	19 x 0,10	122,40	0,48	0,81	± 0,05	1,9	11	AAAcc2619
H-H 2401	24	0,20	1 x 0,51	86,00	0,51	0,81	± 0,05	2,8	12	AAAcc2401
H-H 2419 ...	24	0,24	19 x 0,13	77,40	0,60	0,93	± 0,05	2,8	13	AAAcc2419
H-H 2201	22	0,32	1 x 0,64	54,10	0,64	0,94	± 0,05	4,2	16	AAAcc2201
H-H 2219	22	0,38	19 x 0,16	48,60	0,76	1,10	± 0,05	4,2	17	AAAcc2219
H-H 2001	20	0,52	1 x 0,81	33,80	0,81	1,11	± 0,05	6,5	20	AAAcc2001
H-H 2019	20	0,60	19 x 0,20	29,90	0,97	1,31	± 0,07	6,5	22	AAAcc2019
H-H 1819	18	0,96	19 x 0,25	19,00	1,21	1,57	± 0,07	9,9	29	AAAcc1819
H-H 1619	16	1,23	19 x 0,29	14,90	1,36	1,73	± 0,07	13,0	35	AAAcc1619
H-H 1419	14	1,87	19 x 0,36	9,42	1,70	2,19	± 0,10	20,0	53	AAAcc1419
H-H 1237	12	2,98	37 x 0,32	6,20	2,24	2,63	± 0,10	29,0	66	AAAcc1237
H-H 1037	10	4,65	37 x 0,40	3,90	2,82	3,21	± 0,15	45,0	82	AAAcc1819
Note: where an item has two options, resistance values are for SPC. For accurate HSA values see Custom Design: Conductors: Resistance values: Table 3										

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De-rating Factors for Current Rating														
Temperature de-rating (°C)	20	40	60	80	100	120	140	160	180	-	-	-	-	-
	1.08	1.00	0.92	0.84	0.75	0.65	0.55	0.42	0.28	-	-	-	-	-
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: 2010-02-28 Created: CJV Approved: TN Reference: EQ_H_10
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.