HFI 260 LSZH, flame retardant, radiation tolerant cores 600V/150°C, 190°C

H-M xxxx TPC
H-M xxxx NPC

Key features:

Voltage rating: 600/1000V
Test voltage: 3000V
Temperature range: -60°C / +150°C (TPC)
-60°C / +190°C (NPC)
Radiation tolerant: 10^7 Gy
Flame retardant
Low Smoke Zero Halogen (LSZH)
RoHS Compliant
Also referred to as: M xxxx TPC
M xxxx NPC

Application:

HFI 260 equipment wires are available in both AWG and metric (Class 5) sizes. Designed as part of the Habiatron range of wires, cables and coaxial cables, HFI 260 is low smoke, halogen free (LSZH), flame retardant (FR) and has exceptional radiation (Rad Tol) resistance. It is often used as control, signal and instrumentation applications. Two options exist: M xxxx TPC offers good solderability up to +150°C whilst M xxxx NPC is intended for crimp connections, offering increased temperature and current up to +190°C.

Wire construction:

Conductor: H-M xxxx TPC: Tin Plated Copper (TPC)
H-M xxxx NPC: Nickel Plated Copper (NPC)
Insulation: Extruded HFI 260

Prefix (AAA):

580
590

Order reference (AAAccZZZZ):

Prefix: AAA *(e.g. 580, see above)* + colour code: cc *(e.g. 00, see below)* + size: ZZZZ *(e.g. 3007, see table)*

Black
Clear

Description	Size		Conductor			Finished Wire			Electrical		Order reference
	AWG	CSA mm²	stranding	resistance Ω/km	wire Ø	core Ø	tolerance	weight g/m	amps at 40°C TPC	amps at 40°C NPC	
H-M 3007 ...	30	0,05	7 x 0,10	354,30	0,30	0,70	±0,07	0,9	3	4	AAAcc3007
H-M 2807 ...	28	0,09	7 x 0,13	223,80	0,38	0,78	±0,07	1,2	4	5	AAAcc2807
H-M 2619 ...	26	0,16	19 x 0,10	131,60	0,48	0,88	±0,07	1,9	5	7	AAAcc2619
H-M 2419 ...	24	0,22	19 x 0,13	83,30	0,60	1,00	±0,10	2,7	7	10	AAAcc2419
H-M 2219 ...	22	0,34	19 x 0,16	52,20	0,76	1,16	±0,10	4,0	10	14	AAAcc2219
H-M 0,5 ...	-	0,50	16 x 0,20	40,10	0,88	1,28	±0,10	5,2	12	17	AAAcc0050
H-M 2019 ...	20	0,60	19 x 0,20	32,00	0,96	1,36	±0,10	6,2	13	19	AAAcc2019
H-M 0,75 ...	-	0,75	24 x 0,20	26,70	1,05	1,45	±0,10	7,5	15	22	AAAcc0075
H-M 1819 ...	18	0,96	19 x 0,25	20,40	1,20	1,60	±0,10	9,5	18	26	AAAcc1819
H-M 1,0 ...	-	1,00	32 x 0,20	20,00	1,20	1,60	±0,10	9,5	18	26	AAAcc0100
H-M 1619 ...	16	1,23	19 x 0,29	15,80	1,36	1,86	±0,13	12,0	22	31	AAAcc1619
H-M 1,5 ...	-	1,50	30 x 0,25	13,70	1,50	2,00	±0,13	14,8	25	34	AAAcc0150
H-M 1419 ...	14	1,87	19 x 0,36	10,00	1,71	2,21	±0,13	18,5	30	42	AAAcc1419
H-M 2,5 ...	-	2,50	50 x 0,25	8,21	1,95	2,45	±0,13	24,0	35	49	AAAcc0250
H-M 1237 ...	12	2,97	37 x 0,32	2,20	2,24	2,74	±0,13	29,0	41	57	AAAcc1237

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

De-rating Factors for Current Rating														
H-M xxxx TPC 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
H-M xxxx NPC 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: 2010-02-02 Created: CJV Approved: TN Reference: EQ_M_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.