

### SPECIFICATION DATA SHEET

**CABLE TYPE**

**RADIATION RESISTANT POLYIMIDE TAPE**

**GENERAL DESCRIPTION**

SILVER OR NICKEL PLATED COPPER CONDUCTORS, POLYIMIDE TAPED INSULATION. COMPACT, LIGHTWEIGHT INSULATION SYSTEM. LOW SMOKE, FLAME RETARDANT, HIGH TEMPERATURE, POLYIMIDE FILM FOR HIGH RADIATION RESISTANCE.

**RELEVANT STANDARDS**

INTERNAL HEATSENSE SPECIFICATION.

Conductor Details				Insulation Thickness	Overall Diameter	Conductor Resistance ( $\Omega$ /km @ 20°C)	Mass	Long term current rating	Heatsense Product Reference
Size AWG	Stranding (mm)	O/D (mm)	Area (mm <sup>2</sup> )	Nominal (mm)	Nominal (mm)	NPCW/SPCW (Max)	Nom. (kg/km)	Max. *(A)	*S = SPCW *N=NPCW
30	07/0.100	0.30	0.055	0.10	0.50	377/353	0.71	2.0	HSX30*BK
28	07/0.120	0.36	0.079	0.10	0.56	258/244	0.95	3.0	HSX28*BK
26	07/0.150	0.45	0.124	0.10	0.65	166/159	1.39	4.0	HSX26*BK
26	19/0.100	0.50	0.149	0.10	0.70	139/130	1.65	5.0	HSX26*CK
24	07/0.200	0.60	0.220	0.10	0.80	91.20/88.30	2.34	6.0	HSX24*BK
24	19/0.120	0.60	0.215	0.10	0.80	94.90/89.80	2.30	6.0	HSX24*CK
22	01/0.600	0.60	0.283	0.10	0.80	65.00/64.30	2.86	7.0	HSX22*AK
22	19/0.150	0.75	0.336	0.10	0.95	61.30/58.60	3.09	8.0	HSX22*CK
20	19/0.200	1.00	0.597	0.10	1.20	33.60/32.50	5.96	11.0	HSX20*CK
18	01/1.000	1.00	0.785	0.10	1.20	22.00/22.30	7.53	13.0	HSX18*AK
18	19/0.250	1.25	0.933	0.10	1.45	21.20/20.6	9.13	15.0	HSX18*CK
16	19/0.300	1.50	1.343	0.10	1.70	14.60/14.30	13.01	20.0	HSX16*CK
14	19/0.335	1.68	1.675	0.10	1.88	11.60/11.40	16.11	23.0	HSX14*CK
12	19/0.450	2.25	3.022	0.10	2.45	6.38/6.28	28.61	35.0	HSX12*CK
10	37/0.400	2.80	4.650	0.10	3.00	4.08/4.01	43.66	47.0	HSX10*DK

\*Current ratings are based on a temperature rise of 40°C (single wire in free air)

Colour is natural (amber).

Insulated wires can be screened or laid up into multi-core cables and over-sheathed with equally radiation resistant materials. Thermocouple versions are also available.

**CABLE CHARACTERISTICS**

VOLTAGE RATING:	600 V rms
TEMPERATURE RATING:	-75°C to +200°C FOR SPCW -75°C to +300°C FOR NPCW
RADIATION RESISTANCE:	1000 MEGARADS
CHEMICAL RESISTANCE:	EXCELLENT

THESE WIRES EXHIBIT MANY OF THE KEY ADVANTAGES OF PEEK INSULATION WHILE REMAINING SMALLER, EASIER TO PROCESS, MORE FLEXIBLE, EASIER TO HANDLE AND ABLE TO BE PRODUCED IN SHORTER LENGTHS.

**All wire sizes/colours are RoHS and REACH compliant**

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