

### SPECIFICATION DATA SHEET

**CABLE TYPE**

**PTFE INSULATED EQUIPMENT WIRE**

**GENERAL DESCRIPTION**

**SILVER AND NICKEL PLATED COPPER CONDUCTORS,  
PTFE INSULATED TYPE A (SPCW) AND NA (NPCW).**

**RELEVANT STANDARDS**

**BS 3G 210 : 1996**

Heatsense Part Number	Conductor Details				Insulation Thickness		Overall Diameter		Conductor Resistance ( $\Omega$ /km @ 20°C)		Mass	Long term current rating
	*S for SPCW *N for NPCW	Size AWG	Stranding (mm)	O/D (mm)	Area (mm <sup>2</sup> )	Min. (mm)	Nom. (mm)	Min. (mm)	Max. (mm)	SPCW (Max)	NPCW (Max)	Max. (kg/km)
HSP30*AA.	30	01/0.250	0.25	0.049	0.10	0.15	0.45	0.60	377.00	387.00	0.96	2.0
HSP28*AA.	28	01/0.320	0.32	0.080	0.10	0.15	0.52	0.67	229.00	234.00	1.32	3.0
HSP26*AA.	26	01/0.400	0.40	0.126	0.10	0.15	0.60	0.75	146.00	148.00	1.83	4.0
HSP22*AA.	**22	01/0.600	0.60	0.283	0.10	0.15	0.80	0.95	64.30	65.00	3.88	7.0**
HSP32*BA.	32	07/0.080	0.24	0.035	0.10	0.15	0.44	0.59	558.00	605.00	0.84	1.5
HSP30*BA.	30	07/0.100	0.30	0.055	0.10	0.15	0.50	0.65	353.00	377.00	1.10	2.0
HSP28*BA.	28	07/0.120	0.36	0.079	0.10	0.15	0.56	0.71	244.00	258.00	1.40	3.0
HSP26*BA.	26	07/0.150	0.45	0.124	0.10	0.15	0.65	0.80	159.00	166.00	1.96	4.0
HSP24*BA.	24	07/0.200	0.60	0.220	0.10	0.15	0.80	0.95	88.30	91.20	3.04	6.0
HSP26*CA.	26	19/0.100	0.50	0.149	0.10	0.15	0.70	0.85	130.00	139.00	2.26	5.0
HSP24*CA.	24	19/0.120	0.60	0.215	0.10	0.15	0.80	0.95	89.80	94.90	2.99	6.0
HSP22*CA.	22	19/0.150	0.75	0.336	0.10	0.15	0.95	1.10	58.60	61.30	4.41	8.0
HSP20*CA.	20	19/0.200	1.00	0.597	0.10	0.15	1.20	1.35	32.50	33.60	7.19	11.0

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

\*\*Not an actual size within the BS3G210 specification

### CABLE CHARACTERISTICS

**VOLTAGE RATING:**

**300 V rms**

**TEMPERATURE RATING:**

**Industry Rated as -75°C to +200°C for SILVER plated copper conductors,  
(Restricted Rating of +190°C Maximum as per BS3G210 Specification).  
-75°C to +260°C for NICKEL plated copper conductors.**

PTFE is unaffected by oils, lubricants, hydraulic fluids and aircraft fuel. The material is non-flammable, resistant to solder iron damage and is highly flexible. Although widely used for high performance aerospace applications, PTFE wires are used in environments where the demands, whether thermal, electrical or mechanical, are severe.

Available in 11 basic colours Black, Brown, Red, Orange, Yellow, Green, Blue, Violet, Grey, White, Pink (plus natural) along with bi- and tri- colour combinations.

PTFE Insulation is applied either by extrusion, or by spiral lapping and sintering.

**All extruded wire sizes/colours are RoHS compliant**

Information in this publication and otherwise supplied to users is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge which affect the use of products, no warranty is given nor is implied with respect to such information. Users should make their own enquiries to determine the suitability of products for any particular use. Freedom under patents, copyright and registered designs cannot be assumed. This design may be subject to change without notification - please check this data sheet is still current.