



DATE: 16/03/2011
ORIGINATOR: A.J.R.

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

E.P.N. Number	Conductor Details				Insulation Thickness		Overall Diameter		Conductor Resistance (Ω /km @ 20°C)		Mass	Long term current rating
	Size AWG	Stranding (mm)	O/D (mm)	Area (mm ²)	Min. (mm)	Nom. (mm)	Min. (mm)	Max. (mm)	SPCW (Max)	NPCW (Max)	Max. (kg/km)	Max. *(A)
*S for SPCW *N for NPCW												
HP30*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
HP28*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
HP26*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
HP22*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**
HP32*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
HP30*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
HP28*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
HP26*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
HP24*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
HP26*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
HP24*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
HP22*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
HP20*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:

-75°C to +190°C for SILVER plated copper conductors
-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.