

Chapter 11HIGH TENSION CABLES FOR ELECTRONIC EQUIPMENT

CONTENTS

Para

- 1 Introduction
- 3 Specification
Identification
- 4 Unihiten
- 5 Unihitenmet
- Cable types
- 6 Unihiten
- 7 Unihitenmet
- 8 Wire size and properties

Table

	Page
1 Identification thread colours for year of manufacture - Unihitenmet	2
2 Electronic high tension cables and properties	3/4

Fig

	Page
1 Unihiten No. 2 high tension cable	2
2 Unihitenmet No. 2 high tension cable	2

Introduction

1 Two types of high tension (HT) cables are in current use, unshielded Unihiten No. 2 and shielded Unihitenmet No. 2. Both cables are round, have a single core and are used for the interconnection of electronic equipment.

2 These cables supersede and are interchangeable with UNIHITEN No. 1 and UNIHITENMET No. 1 cables (specification EL1352).

Specification

3 Both Unihiten No. 2 and Unihitenmet No. 2 are designed to meet MOD(PE) DELSC L2 Specification No. EL2128, Issue 1.

Identification

Unihiten

4 Unihiten No. 2 cable is identified by the legend UNIHITEN 2 in white followed by five letter code in accordance with BS G212, to distinguish country, manufacturer and year of manufacture. The legend is repeated at intervals of between 150 mm and 300 mm along the cable length.

Unihitenmet

5 Unihitenmet No. 2 cable is identified as to manufacturer and year of manufacture by means of marker threads located beneath the barrier tape. Manufacturer identification thread or threads must be coloured in accordance with PD 2379, published by the British Standards Institution. A thread or threads of cellulose acetate or other similar material is used to identify the

year of manufacture. All manufacturers use the same colour for the current year, see Table 1.

TABLE 1 IDENTIFICATION THREAD COLOURS FOR YEAR OF CABLE MANUFACTURE - UNIHITENMET

Date of manufacture	Colour of marker thread	Date of manufacture	Colour of marker thread
1985	Blue/black	1996	Black/red
1986	Blue/white	1997	White/red
1987	Blue/red	1998	Yellow/blue
1988	Brown/green	1999	Yellow/green
1988	Brown/black	2000	Yellow/black
1990	Brown/white	2001	Yellow/white
1991	Brown/red	2002	Yellow/red
1992	Green/black	2003	Blue/brown
1993	Green/white	2004	Blue/green
1994	Green/red	2005	Blue/black
1995	Black/white	2006	Blue/white

CABLE TYPES

Unihiten

6 Unihiten cable (fig 1) is manufactured with a core comprising a stranded tinned copper conductor covered by an insulator of ethylene propylene rubber and a sheath of black chlorosulphonated polyethylene.

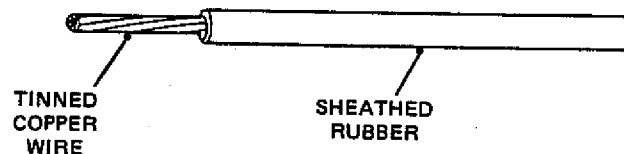


Fig 1 Unihiten No. 2 high tension cable

Unihitenmet

7 Unihitenmet cable (fig 2) is manufactured similarly to Unihiten cable (refer to para 6) but has a thicker insulator and an outer metal screening sheath of tinned copper braiding. The screening sheath is separated from the rubber insulator by a barrier of varnished polyethylene teraphthalate fabric tape. The barrier tape may be a single tape wound around the insulator to provide a 50% overlap or two or more tapes wound to meet the same specification.

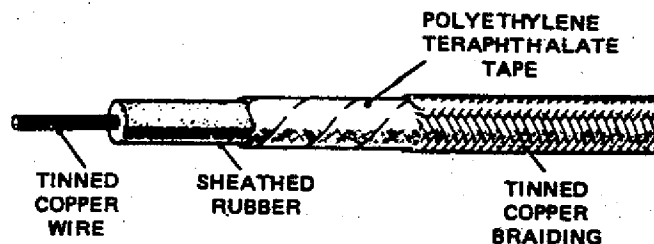


Fig 2 Unihitenmet No. 2 high tension cable

Wire size and properties

8 Table 2 lists the wire sizes, the Sect/Ref No. and properties of both Unihiten and Unihitenmet HT cables.

TABLE 2 ELECTRONIC HIGH TENSION CABLES AND PROPERTIES

Cable type	Number and nominal dia. of conductor wires	Overall cable dia. min./max. (mm)	Nominal mass	Maximum resistance at 20 °C (ohms/1000 m)	Sect/Ref No.
Unihiten No. 2	19/0.30	6.35/6.85	-	14.3	5E/6425217
Unihitenmet No. 2	19/0.30	7.40/7.90	-	14.3	5E/6425216



This file was downloaded
from the RTFM Library.

Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.

