

# Shielded Signal Cables

| Page      | Material | Name            | Voltage | Temp. | Specification           |
|-----------|----------|-----------------|---------|-------|-------------------------|
| D.2       | ETFE     | H-GM23-F        | 600 V   | 150°C | VG 95218-023F           |
| D.3       | ETFE     | M-ZL-STZ        | 600 V   | 150°C | Habia internal standard |
| D.4/D.5   | ETFE     | M-ZN-STZ        | 600 V   | 150°C | Habia internal standard |
| D.6       | HFI      | D-STB           | 600 V   | 120°C | Habia internal standard |
| D.7       | LSI 155  | D-F1T-STF       | 600 V   | 135°C | DSP 61-12 Pt 33 / 001   |
| D.8       | LSI 155  | D-F2T-STF       | 600 V   | 135°C | DSP 61-12 Pt 33 / 001   |
| D.9       | LSI 155  | D-F1S-STF       | 600 V   | 150°C | DSP 61-12 Pt 33 / 001   |
| D.10      | LSI 155  | D-F2S-STF       | 600 V   | 150°C | DSP 61-12 Pt 33 / 001   |
| D.11      | PTFE     | ET-STK          | 250 V   | 200°C | Habia internal standard |
| D.12/D.13 | PTFE     | E-STK           | 600 V   | 200°C | Habia internal standard |
| D.14      | PTFE     | EE-STK          | 1000 V  | 200°C | Habia internal standard |
| D.15      | PTFE     | KK 55 / 67 / 79 | 600 V   | 250°C | NF C 93-523             |
| D.16      | PTFE     | H-UT-STK        | 160 V   | 200°C | Habia internal standard |

#### Properties:

Thin wall, light weight insulation

Flame retardant  
Low smoke generation

Excellent for use in oils, fuels, acids and bases

Fully approved to:  
VG 95218-23 Type F

Uses single elements to:  
VG 95218-20 Type A

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

Single core  
Two cores  
Three cores  
Four cores  
Jacket

Tin Plated Copper (TPC)  
ETFE

Tin Plated Copper (TPC)  
ETFE  
- 65 / +150°C  
600 V AC  
1500 V AC

2 Core



3 Core



4 Core



5 Core



7 Core



#### Notes:

All dimensions nominal ( $\pm 4\%$ )  
unless otherwise stated.  
All dimensions in mm.

| Type         | Size |                 | Conductor  |        |               | Finished Cable |          |          |                | Specification        | Order Reference |
|--------------|------|-----------------|------------|--------|---------------|----------------|----------|----------|----------------|----------------------|-----------------|
|              | AWG  | mm <sup>2</sup> | Stranding  | Wire Ø | DC Res @ 20°C | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                      |                 |
| H-GM23-F010  | 24   | 0,25            | 19 strands | 0,66   | 87,7          | 1,02           | 2,13     | 3,12     | 16,9           | VG 95218 T 023 F 010 | 305-52306-100   |
| H-GM23-F001  | 22   | 0,40            | 19 strands | 0,84   | 54,2          | 1,19           | 2,48     | 3,48     | 21,6           | VG 95218 T 023 F 001 | 305-52306-010   |
| H-GM23-F002  | 19   | 0,60            | 37 strands | 1,04   | 34,2          | 1,40           | 2,90     | 3,89     | 28,0           | VG 95218 T 023 F 002 | 305-52306-020   |
| H-GM23-F011  | 17   | 1,00            | 37 strands | 1,20   | 21,4          | 1,70           | 3,40     | 4,42     | 38,3           | VG 95218 T 023 F 011 | 305-52306-110   |
| H-GM23-F013  | 16   | 1,20            | 37 strands | 1,47   | 16,7          | 1,83           | 3,80     | 4,78     | 45,0           | VG 95218 T 023 F 013 | 305-52306-130   |
| H-GM23-F003  | 13   | 2,50            | 37 strands | 2,14   | 8,37          | 2,55           | 5,50     | 6,60     | 78,6           | VG 95218 T 023 F 003 | 305-52306-030   |
| H-GM23-F018  | 12   | 3,00            | 37 strands | 2,29   | 6,96          | 2,74           | 5,68     | 6,84     | 91,5           | VG 95218 T 023 F 018 | 305-52306-180   |
|              |      |                 |            |        |               |                |          |          |                |                      |                 |
| H-GM23-F006  | 24   | 0,25            | 19 strands | 0,66   | 87,7          | 1,02           | 2,30     | 3,28     | 21,4           | VG 95218 T 023 F 006 | 305-52306-060   |
| H-GM23-F004  | 22   | 0,40            | 19 strands | 0,84   | 54,2          | 1,19           | 2,68     | 3,68     | 28,0           | VG 95218 T 023 F 004 | 305-52306-040   |
| H-GM23-F005  | 19   | 0,60            | 37 strands | 1,04   | 34,2          | 1,40           | 3,13     | 4,14     | 37,2           | VG 95218 T 023 F 005 | 305-52306-050   |
| H-GM23-F014  | 17   | 1,00            | 37 strands | 1,20   | 21,4          | 1,70           | 3,67     | 4,67     | 51,3           | VG 95218 T 023 F 014 | 305-52306-140   |
| H-GM23-F015  | 16   | 1,20            | 37 strands | 1,47   | 16,7          | 1,83           | 4,10     | 5,08     | 61,1           | VG 95218 T 023 F 015 | 305-52306-150   |
|              |      |                 |            |        |               |                |          |          |                |                      |                 |
| H-GM23-F009  | 24   | 0,25            | 19 strands | 0,66   | 87,7          | 1,02           | 2,57     | 3,63     | 26,6           | VG 95218 T 023 F 009 | 305-52306-090   |
| H-GM23-F007  | 22   | 0,40            | 19 strands | 0,84   | 54,2          | 1,19           | 2,99     | 4,11     | 35,2           | VG 95218 T 023 F 007 | 305-52306-070   |
| H-GM23-F008  | 19   | 0,60            | 37 strands | 1,04   | 34,2          | 1,40           | 3,49     | 4,62     | 47,4           | VG 95218 T 023 F 008 | 305-52306-080   |
| H-GM23-F012  | 17   | 1,00            | 37 strands | 1,20   | 21,4          | 1,70           | 4,10     | 5,26     | 64,7           | VG 95218 T 023 F 012 | 305-52306-120   |
| H-GM23-F016  | 16   | 1,20            | 37 strands | 1,47   | 16,7          | 1,83           | 4,58     | 5,77     | 77,7           | VG 95218 T 023 F 016 | 305-52306-160   |
| H-GM23-F019  | 12   | 3,00            | 37 strands | 2,29   | 6,96          | 2,74           | 6,60     | 7,98     | 154            | VG 95218 T 023 F 019 | 305-52306-190   |
|              |      |                 |            |        |               |                |          |          |                |                      |                 |
| H-GM23-F020  | 16   | 1,20            | 37 strands | 1,47   | 16,7          | 1,83           | 5,10     | 6,30     | 100            | VG 95218 T 023 F 020 | 305-52306-200   |
|              |      |                 |            |        |               |                |          |          |                |                      |                 |
| H-GM23-F017* | 16   | 1,20            | 37 strands | 1,47   | 16,7          | 1,83           | 6,40     | 7,56     | 140            | VG 95218 T 023 F 017 | 305-52306-170   |
| H-GM23-F021  | 16   | 1,20            | 37 strands | 1,47   | 16,7          | 1,83           | 5,70     | 6,90     | 131            | VG 95218 T 023 F 021 | 305-52306-210   |
|              |      |                 |            |        |               |                |          |          |                |                      |                 |

\*Type H-GM23-F017 approved only as a single element for cable VG 95218 T 028 D 007

#### Properties:

Thin wall, light weight  
Insulation

Flame retardant  
Low smoke generation

Excellent for use in oils,  
fuels, acids and bases

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

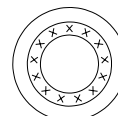
Single core  
Two cores  
Three cores  
Four cores  
Jacket

Tin Plated Copper (TPC)  
ETFE

Tin Plated Copper (TPC)  
ETFE  
-65 / +150°C  
600 V AC  
1500 V AC

White  
White / Red  
White / Red / Black  
White / Red / Black / Blue  
White

#### M-ZL-STZ 1



#### M-ZL-STZ 2



#### M-ZL-STZ 3



#### M-ZL-STZ 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ )  
unless otherwise stated.  
All dimensions in mm.

| Type            | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification           | Order Reference |
|-----------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|                 | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                         |                 |
| M-ZL 3007 STZ 1 | 30   | 0,06            | 7 x 0,10  | 0,30   | 355                     | 0,61           | 1,1      | 1,5      | 5,3            | Habia internal standard | 525013007       |
| M-ZL 2807 STZ 1 | 28   | 0,09            | 7 x 0,13  | 0,38   | 225                     | 0,68           | 1,2      | 1,6      | 5,9            | Habia internal standard | 525012807       |
| M-ZL 2619 STZ 1 | 26   | 0,16            | 19 x 0,10 | 0,48   | 135                     | 0,81           | 1,3      | 1,7      | 7,0            | Habia internal standard | 525012619       |
| M-ZL 2419 STZ 1 | 24   | 0,24            | 19 x 0,13 | 0,60   | 86,0                    | 0,91           | 1,4      | 1,8      | 8,8            | Habia internal standard | 525012419       |
| M-ZL 2219 STZ 1 | 22   | 0,38            | 19 x 0,16 | 0,76   | 53,1                    | 1,09           | 1,5      | 2,0      | 10             | Habia internal standard | 525012219       |
| M-ZL 2019 STZ 1 | 20   | 0,61            | 19 x 0,20 | 0,96   | 32,4                    | 1,30           | 1,8      | 2,2      | 14             | Habia internal standard | 525012019       |
| M-ZL 1819 STZ 1 | 18   | 0,96            | 19 x 0,25 | 1,21   | 20,4                    | 1,55           | 2,0      | 2,5      | 18             | Habia internal standard | 525011819       |
| M-ZL 1619 STZ 1 | 16   | 1,20            | 19 x 0,29 | 1,36   | 15,8                    | 1,70           | 2,2      | 2,7      | 21             | Habia internal standard | 525011619       |
| M-ZL 3007 STZ 2 | 30   | 0,06            | 7 x 0,10  | 0,30   | 355                     | 0,61           | 1,7      | 2,1      | 7,9            | Habia internal standard | 525023007       |
| M-ZL 2807 STZ 2 | 28   | 0,09            | 7 x 0,13  | 0,38   | 225                     | 0,68           | 1,8      | 2,3      | 9,1            | Habia internal standard | 525022807       |
| M-ZL 2619 STZ 2 | 26   | 0,16            | 19 x 0,10 | 0,48   | 135                     | 0,81           | 2,1      | 2,6      | 9,5            | Habia internal standard | 525022619       |
| M-ZL 2419 STZ 2 | 24   | 0,24            | 19 x 0,13 | 0,60   | 86,0                    | 0,91           | 2,3      | 2,8      | 14             | Habia internal standard | 525022419       |
| M-ZL 2219 STZ 2 | 22   | 0,38            | 19 x 0,16 | 0,76   | 53,1                    | 1,09           | 2,7      | 3,2      | 18             | Habia internal standard | 525022219       |
| M-ZL 2019 STZ 2 | 20   | 0,61            | 19 x 0,20 | 0,96   | 32,4                    | 1,30           | 3,1      | 3,6      | 24             | Habia internal standard | 525022019       |
| M-ZL 1819 STZ 2 | 18   | 0,96            | 19 x 0,25 | 1,21   | 20,4                    | 1,55           | 3,6      | 4,1      | 32             | Habia internal standard | 525021819       |
| M-ZL 1619 STZ 2 | 16   | 1,20            | 19 x 0,29 | 1,36   | 15,8                    | 1,70           | 3,9      | 4,5      | 40             | Habia internal standard | 525021619       |
| M-ZL 3007 STZ 3 | 30   | 0,06            | 7 x 0,10  | 0,30   | 355                     | 0,61           | 1,8      | 2,2      | 10             | Habia internal standard | 525033007       |
| M-ZL 2807 STZ 3 | 28   | 0,09            | 7 x 0,13  | 0,38   | 225                     | 0,68           | 1,9      | 2,4      | 12             | Habia internal standard | 525032807       |
| M-ZL 2619 STZ 3 | 26   | 0,16            | 19 x 0,10 | 0,48   | 135                     | 0,81           | 2,2      | 2,7      | 15             | Habia internal standard | 525032619       |
| M-ZL 2419 STZ 3 | 24   | 0,24            | 19 x 0,13 | 0,60   | 86,0                    | 0,91           | 2,4      | 2,9      | 19             | Habia internal standard | 525032419       |
| M-ZL 2219 STZ 3 | 22   | 0,38            | 19 x 0,16 | 0,76   | 53,1                    | 1,09           | 2,8      | 3,3      | 24             | Habia internal standard | 525032219       |
| M-ZL 2019 STZ 3 | 20   | 0,61            | 19 x 0,20 | 0,96   | 32,4                    | 1,30           | 3,3      | 3,8      | 33             | Habia internal standard | 525032019       |
| M-ZL 1819 STZ 3 | 18   | 0,96            | 19 x 0,25 | 1,21   | 20,4                    | 1,55           | 3,8      | 4,4      | 45             | Habia internal standard | 525031819       |
| M-ZL 1619 STZ 3 | 16   | 1,20            | 19 x 0,29 | 1,36   | 15,8                    | 1,70           | 4,1      | 4,8      | 56             | Habia internal standard | 525031619       |
| M-ZL 3007 STZ 4 | 30   | 0,06            | 7 x 0,10  | 0,30   | 355                     | 0,61           | 1,9      | 2,4      | 12             | Habia internal standard | 525043007       |
| M-ZL 2807 STZ 4 | 28   | 0,09            | 7 x 0,13  | 0,38   | 225                     | 0,68           | 2,1      | 2,6      | 14             | Habia internal standard | 525042807       |
| M-ZL 2619 STZ 4 | 26   | 0,16            | 19 x 0,10 | 0,48   | 135                     | 0,81           | 2,4      | 2,9      | 18             | Habia internal standard | 525042619       |
| M-ZL 2419 STZ 4 | 24   | 0,24            | 19 x 0,13 | 0,60   | 86,0                    | 0,91           | 2,7      | 3,2      | 22             | Habia internal standard | 525042419       |
| M-ZL 2219 STZ 4 | 22   | 0,38            | 19 x 0,16 | 0,76   | 53,1                    | 1,09           | 3,1      | 3,6      | 30             | Habia internal standard | 525042219       |
| M-ZL 2019 STZ 4 | 20   | 0,61            | 19 x 0,20 | 0,96   | 32,4                    | 1,30           | 3,6      | 4,1      | 41             | Habia internal standard | 525042019       |
| M-ZL 1819 STZ 4 | 18   | 0,96            | 19 x 0,25 | 1,21   | 20,4                    | 1,55           | 4,2      | 4,7      | 58             | Habia internal standard | 525041819       |
| M-ZL 1619 STZ 4 | 16   | 1,20            | 19 x 0,29 | 1,36   | 15,8                    | 1,70           | 4,6      | 5,3      | 70             | Habia internal standard | 525041619       |

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.

Ref: SSC-eZLSTZ-03

Date: 2007-05-31

Approved by:

**Properties:**

Thin wall, light weight  
Insulation

Flame retardant  
Low smoke generation

Excellent for use in oils,  
fuels, acids and bases

**Construction:**

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

**Colours:**

Single core  
Two cores  
Three cores  
Four cores  
Jacket

Tin Plated Copper (TPC)  
ETFE

Tin Plated Copper (TPC)

-65 / +150°C  
600 V AC  
1500 V AC

White

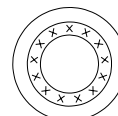
White / Red

White / Red / Black

White / Red / Black / Blue

White

**M-ZN-STZ 1**



**M-ZN-STZ 2**



## M-ZN-STZ 3



## M-ZN-STZ 4



**Notes:**

All dimensions nominal ( $\pm 4\%$ )

unless otherwise stated.

All dimensions in mm.

[illegible]

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.

Ref: SSC-eZNSTZ-03

Rel. SSC-eZNS1.  
Date: 2007-05-31

Approved by:

K

## M-ZN-STZ

ETFE

Shielded Signal Cables, 600V, +150°C

| Type            | Size |      | Conductor |        |                         | Finished Cable |          |          |                |                         | Order Reference |
|-----------------|------|------|-----------|--------|-------------------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|                 | AWG  | mm²  | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) | Specification           |                 |
| M-ZN 3007 STZ 3 | 30   | 0,06 | 7 x 0,10  | 0,30   | 330                     | 0,75           | 2,1      | 2,6      | 12             | Habia internal standard | 523033007       |
| M-ZN 2807 STZ 3 | 28   | 0,09 | 7 x 0,13  | 0,38   | 209                     | 0,83           | 2,2      | 2,7      | 14             | Habia internal standard | 523032807       |
| M-ZN 2619 STZ 3 | 26   | 0,16 | 19 x 0,10 | 0,48   | 125                     | 0,96           | 2,5      | 3,0      | 17             | Habia internal standard | 523032619       |
| M-ZN 2419 STZ 3 | 24   | 0,24 | 19 x 0,13 | 0,60   | 79,7                    | 1,14           | 2,9      | 3,4      | 23             | Habia internal standard | 523032419       |
| M-ZN 2219 STZ 3 | 22   | 0,38 | 19 x 0,16 | 0,76   | 49,5                    | 1,32           | 3,3      | 3,8      | 29             | Habia internal standard | 523032219       |
| M-ZN 2019 STZ 3 | 20   | 0,61 | 19 x 0,20 | 0,97   | 30,1                    | 1,52           | 3,8      | 4,3      | 38             | Habia internal standard | 523032019       |
| M-ZN 1819 STZ 3 | 18   | 0,96 | 19 x 0,25 | 1,21   | 18,9                    | 1,80           | 4,4      | 5,1      | 53             | Habia internal standard | 523031819       |
| M-ZN 1619 STZ 3 | 16   | 1,20 | 19 x 0,29 | 1,36   | 14,8                    | 2,01           | 4,8      | 5,5      | 64             | Habia internal standard | 523031619       |
| M-ZN 1419 STZ 3 | 14   | 2,00 | 19 x 0,36 | 1,70   | 10,0                    | 2,36           | 5,6      | 6,3      | 89             | Habia internal standard | 523031419       |
| M-ZN 1237 STZ 3 | 12   | 3,00 | 37 x 0,32 | 2,20   | 6,63                    | 2,90           | 6,8      | 7,5      | 130            | Habia internal standard | 523031237       |
| M-ZN 1037 STZ 3 | 10   | 4,70 | 37 x 0,40 | 2,77   | 4,13                    | 3,53           | 8,2      | 9,1      | 200            | Habia internal standard | 523031037       |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
| M-ZN 3007 STZ 4 | 30   | 0,06 | 7 x 0,10  | 0,30   | 330                     | 0,75           | 2,3      | 2,8      | 14             | Habia internal standard | 523043007       |
| M-ZN 2807 STZ 4 | 28   | 0,09 | 7 x 0,13  | 0,38   | 209                     | 0,83           | 2,5      | 3,0      | 16             | Habia internal standard | 523042807       |
| M-ZN 2619 STZ 4 | 26   | 0,16 | 19 x 0,10 | 0,48   | 125                     | 0,96           | 2,8      | 3,3      | 21             | Habia internal standard | 523042619       |
| M-ZN 2419 STZ 4 | 24   | 0,24 | 19 x 0,13 | 0,60   | 79,7                    | 1,14           | 3,2      | 3,7      | 27             | Habia internal standard | 523042419       |
| M-ZN 2219 STZ 4 | 22   | 0,38 | 19 x 0,16 | 0,76   | 49,5                    | 1,32           | 3,7      | 4,3      | 35             | Habia internal standard | 523042219       |
| M-ZN 2019 STZ 4 | 20   | 0,61 | 19 x 0,20 | 0,97   | 30,1                    | 1,52           | 4,1      | 4,8      | 49             | Habia internal standard | 523042019       |
| M-ZN 1819 STZ 4 | 18   | 0,96 | 19 x 0,25 | 1,21   | 18,9                    | 1,80           | 4,8      | 5,5      | 66             | Habia internal standard | 523041819       |
| M-ZN 1619 STZ 4 | 16   | 1,20 | 19 x 0,29 | 1,36   | 14,8                    | 2,01           | 5,3      | 6,0      | 80             | Habia internal standard | 523041619       |
| M-ZN 1419 STZ 4 | 14   | 2,00 | 19 x 0,36 | 1,70   | 10,0                    | 2,36           | 6,2      | 6,9      | 110            | Habia internal standard | 523041419       |
| M-ZN 1237 STZ 4 | 12   | 3,00 | 37 x 0,32 | 2,20   | 6,63                    | 2,90           | 7,6      | 8,3      | 170            | Habia internal standard | 523041237       |
| M-ZN 1037 STZ 4 | 10   | 4,70 | 37 x 0,40 | 2,77   | 4,13                    | 3,53           | 9,1      | 10,0     | 260            | Habia internal standard | 523041037       |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |
|                 |      |      |           |        |                         |                |          |          |                |                         |                 |

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Ref: SSC-eZNSTZ-03  
Date: 2007-05-31  
Approved by: 

#### Properties:

Thin wall, light weight construction

Flame retardant

Halogen free

Low smoke generation

#### Construction:

Conductor

Insulation

Shield

Jacket

Temperature rating

Voltage

Test voltage

#### Colours:

Single core

Two cores

Three cores

Four cores

Jacket

Tin Plated Copper (TPC)

HFI 140

Tin Plated Copper (TPC)

HFI 150

-50 / +120°C

600 V AC

3000 V AC

White

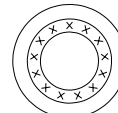
Red / Blue

Red / Blue / Yellow

Red / Blue / Yellow / Green

White

#### D-STB 1



#### D-STB 2



#### D-STB 3



#### D-STB 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ )

unless otherwise stated.

All dimensions in mm.

| Type         | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification           | Order Reference |
|--------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|              | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                         |                 |
| D 2619 STB 1 | 26   | 0,15            | 19 x 0,10 | 0,48   | 141,0                   | 0,88           | 1,3      | 1,8      | 7              | Habia internal standard | 703-00021-015   |
| D 2419 STB 1 | 24   | 0,20            | 19 x 0,12 | 0,60   | 95,6                    | 1,00           | 1,5      | 2,0      | 9              | Habia internal standard | 703-00021-020   |
| D 2219 STB 1 | 22   | 0,40            | 19 x 0,15 | 0,76   | 60,0                    | 1,16           | 1,6      | 2,1      | 11             | Habia internal standard | 703-00021-040   |
| D 2019 STB 1 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 1,8      | 2,3      | 13             | Habia internal standard | 703-00021-060   |
| D 1819 STB 1 | 18   | 1,00            | 19 x 0,25 | 1,20   | 21,1                    | 1,60           | 2,1      | 2,6      | 18             | Habia internal standard | 703-00021-100   |
| D 1619 STB 1 | 16   | 1,20            | 19 x 0,30 | 1,42   | 14,5                    | 1,82           | 2,3      | 2,8      | 22             | Habia internal standard | 703-00021-120   |
| D 1437 STB 1 | 14   | 2,00            | 37 x 0,25 | 1,75   | 10,9                    | 2,25           | 2,7      | 3,3      | 30             | Habia internal standard | 703-00021-200   |
| D 1237 STB 1 | 12   | 2,60            | 37 x 0,30 | 2,10   | 7,60                    | 2,60           | 3,1      | 3,7      | 38             | Habia internal standard | 703-00021-260   |
| D 2619 STB 2 | 26   | 0,15            | 19 x 0,10 | 0,48   | 141,0                   | 0,88           | 2,2      | 2,7      | 13             | Habia internal standard | 703-00022-015   |
| D 2419 STB 2 | 24   | 0,20            | 19 x 0,12 | 0,60   | 95,6                    | 1,00           | 2,5      | 3,0      | 15             | Habia internal standard | 703-00022-020   |
| D 2219 STB 2 | 22   | 0,40            | 19 x 0,15 | 0,76   | 60,0                    | 1,16           | 2,8      | 3,3      | 19             | Habia internal standard | 703-00022-040   |
| D 2019 STB 2 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,2      | 3,8      | 26             | Habia internal standard | 703-00022-060   |
| D 1819 STB 2 | 18   | 1,00            | 19 x 0,25 | 1,20   | 21,1                    | 1,60           | 3,7      | 4,4      | 35             | Habia internal standard | 703-00022-100   |
| D 1619 STB 2 | 16   | 1,20            | 19 x 0,30 | 1,42   | 14,5                    | 1,82           | 4,1      | 4,8      | 44             | Habia internal standard | 703-00022-120   |
| D 1437 STB 2 | 14   | 2,00            | 37 x 0,25 | 1,75   | 10,9                    | 2,25           | 5,0      | 5,9      | 63             | Habia internal standard | 703-00022-200   |
| D 1237 STB 2 | 12   | 2,60            | 37 x 0,30 | 2,10   | 7,60                    | 2,60           | 5,7      | 6,6      | 78             | Habia internal standard | 703-00022-260   |
| D 2619 STB 3 | 26   | 0,15            | 19 x 0,10 | 0,48   | 141,0                   | 0,88           | 2,3      | 2,8      | 15             | Habia internal standard | 703-00023-015   |
| D 2419 STB 3 | 24   | 0,20            | 19 x 0,12 | 0,60   | 95,6                    | 1,00           | 2,6      | 3,1      | 19             | Habia internal standard | 703-00023-020   |
| D 2219 STB 3 | 22   | 0,40            | 19 x 0,15 | 0,76   | 60,0                    | 1,16           | 3,0      | 3,6      | 24             | Habia internal standard | 703-00023-040   |
| D 2019 STB 3 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,4      | 4,0      | 34             | Habia internal standard | 703-00023-060   |
| D 1819 STB 3 | 18   | 1,00            | 19 x 0,25 | 1,20   | 21,1                    | 1,60           | 3,9      | 4,6      | 46             | Habia internal standard | 703-00023-100   |
| D 1619 STB 3 | 16   | 1,20            | 19 x 0,30 | 1,42   | 14,5                    | 1,82           | 4,4      | 5,1      | 60             | Habia internal standard | 703-00023-120   |
| D 1437 STB 3 | 14   | 2,00            | 37 x 0,25 | 1,75   | 10,9                    | 2,25           | 5,3      | 6,2      | 82             | Habia internal standard | 703-00023-200   |
| D 1237 STB 3 | 12   | 2,60            | 37 x 0,30 | 2,10   | 7,60                    | 2,60           | 6,2      | 7,1      | 112            | Habia internal standard | 703-00023-260   |
| D 2619 STB 4 | 26   | 0,15            | 19 x 0,10 | 0,48   | 141,0                   | 0,88           | 2,6      | 3,1      | 18             | Habia internal standard | 703-00024-015   |
| D 2419 STB 4 | 24   | 0,20            | 19 x 0,12 | 0,60   | 95,6                    | 1,00           | 2,9      | 3,5      | 24             | Habia internal standard | 703-00024-020   |
| D 2219 STB 4 | 22   | 0,40            | 19 x 0,15 | 0,76   | 60,0                    | 1,16           | 3,3      | 3,9      | 30             | Habia internal standard | 703-00024-040   |
| D 2019 STB 4 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,7      | 4,4      | 41             | Habia internal standard | 703-00024-060   |
| D 1819 STB 4 | 18   | 1,00            | 19 x 0,25 | 1,20   | 21,1                    | 1,60           | 4,3      | 5,0      | 58             | Habia internal standard | 703-00024-100   |
| D 1619 STB 4 | 16   | 1,20            | 19 x 0,30 | 1,42   | 14,5                    | 1,82           | 4,9      | 5,8      | 77             | Habia internal standard | 703-00024-120   |
| D 1437 STB 4 | 14   | 2,00            | 37 x 0,25 | 1,75   | 10,9                    | 2,25           | 6,0      | 6,9      | 110            | Habia internal standard | 703-00024-200   |
| D 1237 STB 4 | 12   | 2,60            | 37 x 0,30 | 2,10   | 7,60                    | 2,60           | 6,9      | 7,8      | 142            | Habia internal standard | 703-00024-260   |

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.

Ref: SSC-eDSTB-01

Date: 2007-05-31

Approved by:

#### Properties:

Thin wall, light weight insulation

Flame retardant  
Low smoke generation

Excellent for use in oils, fuels, acids and bases

Fully approved to Defence Standard: 61-12/33/001/4  
Type 1 (Table 6)

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

Single core  
Two cores  
Three cores  
Four cores  
Jacket

Tin Plated Copper (TPC)\*  
LSI 155

Tin Plated Copper (TPC)  
LSI 155  
-65 / +135°C  
600 V AC  
5000 V AC

White

Red / Blue

Red / Blue / Yellow

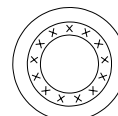
Red / Blue / Yellow / Green

White

#### Identification Ref-XX-HC-YY

See Identification Ref in table below  
Country of manufacture  
Manufacturer's code  
Year of manufacture

#### D-F1T-STF 1



#### D-F1T-STF 2



#### D-F1T-STF 3



#### D-F1T-STF 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

(26 & 24 AWG) Silver plated high strength copper alloy

| Type            | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification        | Order Reference |
|-----------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|----------------------|-----------------|
|                 | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                      |                 |
| D-F1P 001 STF 1 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 1,23     | 1,58     | 6,05           | DSP33/001-1P-001-1SJ | 61903-840-16    |
| D-F1P 002 STF 1 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 1,32     | 1,69     | 7,02           | DSP33/001-1P-002-1SJ | 61903-840-17    |
| D-F1T 004 STF 1 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 1,49     | 1,87     | 8,94           | DSP33/001-1T-004-1SJ | 61903-840-18    |
| D-F1T 006 STF 1 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 1,73     | 2,11     | 12,31          | DSP33/001-1T-006-1SJ | 61903-840-19    |
| D-F1T 010 STF 1 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 1,98     | 2,37     | 16,40          | DSP33/001-1T-010-1SJ | 61903-840-20    |
| D-F1T 012 STF 1 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 2,13     | 2,61     | 21,12          | DSP33/001-1T-012-1SJ | 61903-840-21    |
| D-F1T 020 STF 1 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 2,50     | 2,90     | 26,76          | DSP33/001-1T-020-1SJ | 61903-840-22    |
| D-F1T 030 STF 1 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 2,95     | 3,39     | 38,50          | DSP33/001-1T-030-1SJ | 61903-840-23    |
| D-F1P 001 STF 2 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 2,01     | 2,41     | 10,43          | DSP33/001-1P-001-2SJ | 61903-840-24    |
| D-F1P 002 STF 2 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 2,19     | 2,62     | 12,68          | DSP33/001-1P-002-2SJ | 61903-840-25    |
| D-F1T 004 STF 2 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 2,53     | 2,98     | 16,50          | DSP33/001-1T-004-2SJ | 61903-840-26    |
| D-F1T 006 STF 2 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 3,01     | 3,50     | 23,35          | DSP33/001-1T-006-2SJ | 61903-840-27    |
| D-F1T 010 STF 2 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 3,51     | 4,02     | 31,62          | DSP33/001-1T-010-2SJ | 61903-840-28    |
| D-F1T 012 STF 2 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 3,81     | 4,50     | 41,18          | DSP33/001-1T-012-2SJ | 61903-840-29    |
| D-F1T 020 STF 2 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 4,55     | 5,09     | 52,76          | DSP33/001-1T-020-2SJ | 61903-840-30    |
| D-F1T 030 STF 2 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 5,45     | 6,04     | 76,51          | DSP33/001-1T-030-2SJ | 61903-840-31    |
| D-F1P 001 STF 3 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 2,13     | 2,63     | 14,16          | DSP33/001-1P-001-3SJ | 61903-840-32    |
| D-F1P 002 STF 3 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 2,32     | 2,79     | 16,92          | DSP33/001-1P-002-3SJ | 61903-840-33    |
| D-F1T 004 STF 3 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 2,69     | 3,21     | 22,56          | DSP33/001-1T-004-3SJ | 61903-840-34    |
| D-F1T 006 STF 3 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 3,20     | 3,74     | 32,08          | DSP33/001-1T-006-3SJ | 61903-840-35    |
| D-F1T 010 STF 3 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 3,74     | 4,30     | 44,03          | DSP33/001-1T-010-3SJ | 61903-840-36    |
| D-F1T 012 STF 3 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 4,07     | 4,84     | 58,32          | DSP33/001-1T-012-3SJ | 61903-840-37    |
| D-F1T 020 STF 3 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 4,86     | 5,46     | 74,89          | DSP33/001-1T-020-3SJ | 61903-840-38    |
| D-F1T 030 STF 3 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 5,83     | 6,45     | 109,33         | DSP33/001-1T-030-3SJ | 61303-840-39    |
| D-F1P 001 STF 4 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 2,33     | 2,83     | 17,38          | DSP33/001-1P-001-4SJ | 61903-840-40    |
| D-F1P 002 STF 4 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 2,55     | 3,08     | 21,44          | DSP33/001-1P-002-4SJ | 61903-840-41    |
| D-F1T 004 STF 4 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 2,96     | 3,51     | 28,46          | DSP33/001-1T-004-4SJ | 61903-840-42    |
| D-F1T 006 STF 4 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 3,54     | 4,10     | 40,85          | DSP33/001-1T-006-4SJ | 61903-840-43    |
| D-F1T 010 STF 4 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 4,14     | 4,75     | 56,84          | DSP33/001-1T-010-4SJ | 61903-840-44    |
| D-F1T 012 STF 4 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 4,50     | 5,33     | 75,17          | DSP33/001-1T-012-4SJ | 61903-840-45    |
| D-F1T 020 STF 4 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 5,39     | 6,04     | 97,36          | DSP33/001-1T-020-4SJ | 61903-840-46    |
| D-F1T 030 STF 4 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 6,63     | 7,18     | 143,29         | DSP33/001-1T-030-4SJ | 61903-840-47    |

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.

Ref: SSC-eDF1TSTF-03  
Date: 2007-05-31  
Approved by:

#### Properties:

Thin wall, light weight insulation

Flame retardant  
Low smoke generation

Excellent for use in oils, fuels, acids and bases

Fully approved to Defence Standard: 61-12/33/001/4  
Type 2 (Table 12)

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

Single core  
Two cores  
Three cores  
Four cores  
Jacket

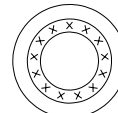
Tin Plated Copper (TPC)\*  
Dual wall LSI 155  
Tin Plated Copper (TPC)  
LSI 155  
-65 / +135°C  
600 V AC  
5000 V AC

White  
Red / Blue  
Red / Blue / Yellow  
Red / Blue / Yellow / Green  
White

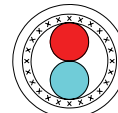
#### Identification Ref-XX-HC-YY

See Identification Ref in table below  
Country of manufacture  
Manufacturer's code  
Year of manufacture

#### D-F2T-STF 1



#### D-F2T-STF 2



#### D-F2T-STF 3



#### D-F2T-STF 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

(26 & 24 AWG) Silver plated high strength copper alloy

| Type            | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification        | Order Reference |
|-----------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|----------------------|-----------------|
|                 | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                      |                 |
| D-F2P 001 STF 1 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 1,33     | 1,79     | 7,16           | DSP33/001-2P-001-1SJ | 61903-839-84    |
| D-F2P 002 STF 1 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 1,42     | 1,89     | 8,31           | DSP33/001-2P-002-1SJ | 61903-839-85    |
| D-F2T 004 STF 1 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 1,60     | 2,16     | 10,98          | DSP33/001-2T-004-1SJ | 61903-839-86    |
| D-F2T 006 STF 1 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 1,81     | 2,40     | 14,44          | DSP33/001-2T-006-1SJ | 61903-839-87    |
| D-F2T 010 STF 1 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 2,10     | 2,64     | 18,71          | DSP33/001-2T-010-1SJ | 61903-839-88    |
| D-F2T 012 STF 1 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 2,25     | 2,77     | 22,12          | DSP33/001-2T-012-1SJ | 61903-839-89    |
| D-F2T 020 STF 1 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 2,62     | 3,40     | 32,08          | DSP33/001-2T-020-1SJ | 61903-839-90    |
| D-F2T 030 STF 1 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 3,09     | 3,91     | 45,28          | DSP33/001-2T-030-1SJ | 61903-839-91    |
| D-F2P 001 STF 2 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 2,21     | 2,70     | 12,12          | DSP33/001-2P-001-2SJ | 61903-839-92    |
| D-F2P 002 STF 2 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 2,39     | 2,90     | 14,33          | DSP33/001-2P-002-2SJ | 61903-839-93    |
| D-F2T 004 STF 2 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 2,75     | 3,42     | 18,68          | DSP33/001-2T-004-2SJ | 61903-839-94    |
| D-F2T 006 STF 2 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,17     | 3,90     | 25,86          | DSP33/001-2T-006-2SJ | 61903-839-95    |
| D-F2T 010 STF 2 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 3,75     | 4,38     | 33,78          | DSP33/001-2T-010-2SJ | 61903-839-96    |
| D-F2T 012 STF 2 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 4,05     | 4,64     | 41,30          | DSP33/001-2T-012-2SJ | 61903-839-97    |
| D-F2T 020 STF 2 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 4,79     | 5,84     | 59,53          | DSP33/001-2T-020-2SJ | 61903-839-98    |
| D-F2T 030 STF 2 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 5,73     | 6,86     | 84,82          | DSP33/001-2T-030-2SJ | 61903-839-99    |
| D-F2P 001 STF 3 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 2,34     | 2,84     | 15,65          | DSP33/001-2P-001-3SJ | 61903-840-00    |
| D-F2P 002 STF 3 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 2,54     | 3,06     | 18,76          | DSP33/001-2P-002-3SJ | 61903-840-01    |
| D-F2T 004 STF 3 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 2,92     | 3,62     | 24,85          | DSP33/001-2T-004-3SJ | 61903-840-02    |
| D-F2T 006 STF 3 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 2,93     | 4,14     | 35,12          | DSP33/001-2T-006-3SJ | 61903-840-03    |
| D-F2T 010 STF 3 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 4,00     | 4,66     | 46,55          | DSP33/001-2T-010-3SJ | 61903-840-04    |
| D-F2T 012 STF 3 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 4,33     | 4,94     | 57,35          | DSP33/001-2T-012-3SJ | 61903-840-05    |
| D-F2T 020 STF 3 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 5,12     | 6,23     | 83,38          | DSP33/001-2T-020-3SJ | 61903-840-06    |
| D-F2T 030 STF 3 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 6,13     | 7,33     | 120,41         | DSP33/001-2T-030-3SJ | 61903-840-07    |
| D-F2P 001 STF 4 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 2,57     | 3,07     | 19,25          | DSP33/001-2P-001-4SJ | 61903-840-08    |
| D-F2P 002 STF 4 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 2,79     | 3,31     | 23,25          | DSP33/001-2P-002-4SJ | 61903-840-09    |
| D-F2T 004 STF 4 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 3,22     | 3,95     | 31,04          | DSP33/001-2T-004-4SJ | 61903-840-10    |
| D-F2T 006 STF 4 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,73     | 4,53     | 44,49          | DSP33/001-2T-006-4SJ | 61903-840-11    |
| D-F2T 010 STF 4 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 4,43     | 5,11     | 59,43          | DSP33/001-2T-010-4SJ | 61903-840-12    |
| D-F2T 012 STF 4 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 4,79     | 5,49     | 73,58          | DSP33/001-2T-012-4SJ | 61903-840-13    |
| D-F2T 020 STF 4 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 5,68     | 6,86     | 107,41         | DSP33/001-2T-020-4SJ | 61903-840-14    |
| D-F2T 030 STF 4 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 6,97     | 8,10     | 156,50         | DSP33/001-2T-030-4SJ | 61903-840-15    |

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.

Ref: SSC-eDF2TSTF-03  
Date: 2007-05-31  
Approved by:

#### Properties:

Thin wall, light weight insulation

Flame retardant  
Low smoke generation

Excellent for use in oils, fuels, acids and bases

Fully approved to Defence Standard: 61-12/33/001/4  
Type 1 (Table 9)

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

Single core  
Two cores  
Three cores  
Four cores  
Jacket

Silver Plated Copper (SPC)\*  
LSI 155

Silver Plated Copper (SPC)  
LSI 155

-65 / +150°C

600 V AC

5000 V AC

White

Red / Blue

Red / Blue / Yellow

Red / Blue / Yellow / Green

White

#### Identification Ref-XX-HC-YY

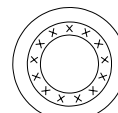
See Identification Ref in table below

Country of manufacture

Manufacturer's code

Year of manufacture

#### D-F1S-STF 1



#### D-F1S-STF 2



#### D-F1S-STF 3



#### D-F1S-STF 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ )

unless otherwise stated.

All dimensions in mm.

(26 & 24 AWG) Silver plated high strength copper alloy

| Type            | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification        | Order Reference |
|-----------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|----------------------|-----------------|
|                 | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                      |                 |
| D-F1S 001 STF 1 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 1,23     | 1,72     | 6,54           | DSP33/001-1S-001-1SJ | 61903-841-54    |
| D-F1S 002 STF 1 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 1,32     | 1,81     | 7,40           | DSP33/001-1S-002-1SJ | 61903-841-55    |
| D-F1S 004 STF 1 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 1,49     | 1,98     | 9,66           | DSP33/001-1S-004-1SJ | 61903-841-56    |
| D-F1S 006 STF 1 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 1,73     | 2,25     | 13,30          | DSP33/001-1S-006-1SJ | 61903-841-57    |
| D-F1S 010 STF 1 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 1,98     | 2,49     | 18,92          | DSP33/001-1S-010-1SJ | 61903-841-58    |
| D-F1S 012 STF 1 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 2,13     | 2,72     | 21,85          | DSP33/001-1S-012-1SJ | 61903-841-59    |
| D-F1S 020 STF 1 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 2,50     | 3,19     | 30,18          | DSP33/001-1S-020-1SJ | 61903-841-60    |
| D-F1S 030 STF 1 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 2,95     | 3,64     | 42,08          | DSP33/001-1S-030-1SJ | 61903-841-61    |
| D-F1S 001 STF 2 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 2,01     | 2,54     | 10,43          | DSP33/001-1S-001-2SJ | 61903-841-62    |
| D-F1S 002 STF 2 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 2,19     | 2,87     | 16,92          | DSP33/001-1S-002-2SJ | 61903-841-63    |
| D-F1S 004 STF 2 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 2,53     | 3,06     | 16,96          | DSP33/001-1S-004-2SJ | 61903-841-64    |
| D-F1S 006 STF 2 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 3,01     | 3,60     | 24,09          | DSP33/001-1S-006-2SJ | 61903-841-65    |
| D-F1S 010 STF 2 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 3,51     | 4,08     | 32,34          | DSP33/001-1S-010-2SJ | 61903-841-66    |
| D-F1S 012 STF 2 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 3,81     | 4,54     | 39,12          | DSP33/001-1S-012-2SJ | 61903-841-67    |
| D-F1S 020 STF 2 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 4,55     | 5,48     | 55,96          | DSP33/001-1S-020-2SJ | 61903-841-68    |
| D-F1S 030 STF 2 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 5,45     | 6,44     | 83,55          | DSP33/001-1S-030-2SJ | 61903-841-69    |
| D-F1S 001 STF 3 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 2,13     | 2,67     | 14,16          | DSP33/001-1S-001-3SJ | 61903-841-70    |
| D-F1S 002 STF 3 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 2,32     | 2,87     | 16,92          | DSP33/001-1S-002-3SJ | 61903-841-71    |
| D-F1S 004 STF 3 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 2,69     | 3,23     | 22,56          | DSP33/001-1S-004-3SJ | 61903-841-72    |
| D-F1S 006 STF 3 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 3,20     | 3,82     | 32,72          | DSP33/001-1S-006-3SJ | 61903-841-73    |
| D-F1S 010 STF 3 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 3,74     | 4,33     | 44,56          | DSP33/001-1S-010-3SJ | 61903-841-74    |
| D-F1S 012 STF 3 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 4,07     | 4,83     | 54,43          | DSP33/001-1S-012-3SJ | 61903-841-75    |
| D-F1S 020 STF 3 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 4,86     | 5,91     | 79,79          | DSP33/001-1S-020-3SJ | 61903-841-76    |
| D-F1S 030 STF 3 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 5,83     | 6,88     | 118,73         | DSP33/001-1S-030-3SJ | 61303-841-77    |
| D-F1S 001 STF 4 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,78           | 2,33     | 2,88     | 17,38          | DSP33/001-1S-001-4SJ | 61903-841-78    |
| D-F1S 002 STF 4 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,87           | 2,55     | 3,10     | 21,15          | DSP33/001-1S-002-4SJ | 61903-841-79    |
| D-F1S 004 STF 4 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,04           | 2,96     | 3,51     | 28,30          | DSP33/001-1S-004-4SJ | 61903-841-80    |
| D-F1S 006 STF 4 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,28           | 3,54     | 4,17     | 41,54          | DSP33/001-1S-006-4SJ | 61903-841-81    |
| D-F1S 010 STF 4 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,53           | 4,14     | 4,75     | 56,99          | DSP33/001-1S-010-4SJ | 61903-841-82    |
| D-F1S 012 STF 4 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,68           | 4,50     | 5,30     | 69,99          | DSP33/001-1S-012-4SJ | 61903-841-83    |
| D-F1S 020 STF 4 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,05           | 5,39     | 6,50     | 103,10         | DSP33/001-1S-020-4SJ | 61903-841-84    |
| D-F1S 030 STF 4 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,50           | 6,63     | 7,59     | 154,41         | DSP33/001-1S-030-4SJ | 61903-841-85    |

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.

Ref: SSC-eDF1SSTF-02

Date: 2007-05-31

Approved by:

#### Properties:

Thin wall, light weight insulation

Flame retardant  
Low smoke generation

Excellent for use in oils, fuels, acids and bases

Fully approved to Defence Standard: 61-12/33/001/4  
Type 2 (Table 15)

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

Single core  
Two cores  
Three cores  
Four cores  
Jacket

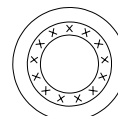
Silver Plated Copper (SPC)\*  
Dual wall LSI 155  
Silver Plated Copper (SPC)  
LSI 155  
-65 / +135°C  
600 V AC  
5000 V AC

White  
Red / Blue  
Red / Blue / Yellow  
Red / Blue / Yellow / Green  
White

#### Identification Ref-XX-HC-YY

See Identification Ref in table below  
Country of manufacture  
Manufacturer's code  
Year of manufacture

#### D-F2S-STF 1



#### D-F2S-STF 2



#### D-F2S-STF 3



#### D-F2S-STF 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ ) unless otherwise stated.  
All dimensions in mm.

(26 & 24 AWG) Silver plated high strength copper alloy

| Type            | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification        | Order Reference |
|-----------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|----------------------|-----------------|
|                 | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                      |                 |
| D-F2S 001 STF 1 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 1,33     | 1,90     | 7,81           | DSP33/001-2S-001-1SJ | 61903-841-22    |
| D-F2S 002 STF 1 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 1,42     | 2,06     | 9,51           | DSP33/001-2S-002-1SJ | 61903-841-23    |
| D-F2S 004 STF 1 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 1,60     | 2,16     | 10,98          | DSP33/001-2S-004-1SJ | 61903-841-24    |
| D-F2S 006 STF 1 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 1,81     | 2,40     | 14,66          | DSP33/001-2S-006-1SJ | 61903-841-25    |
| D-F2S 010 STF 1 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 2,10     | 2,65     | 19,00          | DSP33/001-2S-010-1SJ | 61903-841-26    |
| D-F2S 012 STF 1 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 2,25     | 2,79     | 22,74          | DSP33/001-2S-012-1SJ | 61903-841-27    |
| D-F2S 020 STF 1 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 2,62     | 3,40     | 32,08          | DSP33/001-2S-020-1SJ | 61903-841-28    |
| D-F2S 030 STF 1 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 3,09     | 3,91     | 45,28          | DSP33/001-2S-030-1SJ | 61903-841-29    |
| D-F2S 001 STF 2 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 2,21     | 2,90     | 13,15          | DSP33/001-2S-001-2SJ | 61903-841-30    |
| D-F2S 002 STF 2 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 2,39     | 3,22     | 16,34          | DSP33/001-2S-002-2SJ | 61903-841-31    |
| D-F2S 004 STF 2 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 2,75     | 3,42     | 19,42          | DSP33/001-2S-004-2SJ | 61903-841-32    |
| D-F2S 006 STF 2 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,17     | 3,90     | 26,65          | DSP33/001-2S-006-2SJ | 61903-841-33    |
| D-F2S 010 STF 2 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 3,75     | 4,42     | 35,19          | DSP33/001-2S-010-2SJ | 61903-841-34    |
| D-F2S 012 STF 2 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 4,05     | 4,69     | 42,65          | DSP33/001-2S-012-2SJ | 61903-841-35    |
| D-F2S 020 STF 2 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 4,79     | 5,84     | 59,53          | DSP33/001-2S-020-2SJ | 61903-841-36    |
| D-F2S 030 STF 2 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 5,73     | 6,86     | 84,82          | DSP33/001-2S-030-2SJ | 61903-841-37    |
| D-F2S 001 STF 3 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 2,34     | 3,06     | 17,02          | DSP33/001-2S-001-3SJ | 61903-841-38    |
| D-F2S 002 STF 3 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 2,54     | 3,41     | 21,42          | DSP33/001-2S-002-3SJ | 61903-841-39    |
| D-F2S 004 STF 3 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 2,92     | 3,62     | 25,85          | DSP33/001-2S-004-3SJ | 61903-841-40    |
| D-F2S 006 STF 3 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 2,93     | 4,14     | 36,18          | DSP33/001-2S-006-3SJ | 61903-841-41    |
| D-F2S 010 STF 3 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 4,00     | 4,70     | 48,40          | DSP33/001-2S-010-3SJ | 61903-841-42    |
| D-F2S 012 STF 3 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 4,33     | 5,00     | 59,28          | DSP33/001-2S-012-3SJ | 61903-841-43    |
| D-F2S 020 STF 3 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 5,12     | 6,23     | 83,38          | DSP33/001-2S-020-3SJ | 61903-841-44    |
| D-F2S 030 STF 3 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 6,13     | 7,33     | 120,41         | DSP33/001-2S-030-3SJ | 61903-841-45    |
| D-F2S 001 STF 4 | 26   | 0,15            | 19 x 0,10 | 0,48   | 160                     | 0,88           | 2,57     | 3,32     | 20,96          | DSP33/001-2S-001-4SJ | 61903-841-46    |
| D-F2S 002 STF 4 | 24   | 0,25            | 19 x 0,12 | 0,57   | 114                     | 0,97           | 2,79     | 3,71     | 26,64          | DSP33/001-2S-002-4SJ | 61903-841-47    |
| D-F2S 004 STF 4 | 22   | 0,35            | 19 x 0,15 | 0,71   | 60,0                    | 1,15           | 3,22     | 3,95     | 32,37          | DSP33/001-2S-004-4SJ | 61903-841-48    |
| D-F2S 006 STF 4 | 20   | 0,60            | 19 x 0,20 | 0,96   | 33,2                    | 1,36           | 3,73     | 4,53     | 45,82          | DSP33/001-2S-006-4SJ | 61903-841-49    |
| D-F2S 010 STF 4 | 18   | 0,95            | 19 x 0,25 | 1,21   | 21,1                    | 1,65           | 4,43     | 5,15     | 61,78          | DSP33/001-2S-010-4SJ | 61903-841-50    |
| D-F2S 012 STF 4 | 16   | 1,25            | 19 x 0,29 | 1,36   | 15,8                    | 1,80           | 4,79     | 5,49     | 76,10          | DSP33/001-2S-012-4SJ | 61903-841-51    |
| D-F2S 020 STF 4 | 14   | 1,80            | 37 x 0,25 | 1,73   | 10,9                    | 2,17           | 5,68     | 6,86     | 107,41         | DSP33/001-2S-020-4SJ | 61903-841-52    |
| D-F2S 030 STF 4 | 12   | 3,00            | 37 x 0,32 | 2,20   | 6,8                     | 2,64           | 6,97     | 8,10     | 156,50         | DSP33/001-2S-030-4SJ | 61903-841-53    |

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.

Ref: SSC-eDF2SSTF-03  
Date: 2007-05-31  
Approved by:

#### Properties:

Thin wall, light weight  
Insulation

Flame retardant  
Low smoke generation

Excellent for use in oils,  
fuels, acids and bases

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

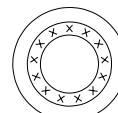
Single core  
Two cores  
Three cores  
Four cores  
Jacket

Silver Plated Copper (SPC)  
PTFE

Silver Plated Copper (SPC)  
FEP  
- 65 / +200°C  
250 V AC  
1500 V AC

White  
White / Red  
White / Red / Black  
White / Red / Black / Blue  
White

#### ET-STK 1



#### ET-STK 2



#### ET-STK 3



#### ET-STK 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ )  
unless otherwise stated.  
All dimensions in mm.

| Type          | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification           | Order Reference |
|---------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|               | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                         |                 |
| ET 3207 STK 1 | 32   | 0,03            | 7 x 0,08  | 0,24   | 567                     | 0,56           | 1,0      | 1,4      | 5,1            | Habia internal standard | 521013207       |
| ET 3007 STK 1 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 0,61           | 1,1      | 1,5      | 5,5            | Habia internal standard | 521013007       |
| ET 2807 STK 1 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 0,69           | 1,2      | 1,6      | 6,1            | Habia internal standard | 521012807       |
| ET 2619 STK 1 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 0,79           | 1,3      | 1,7      | 7,4            | Habia internal standard | 521012619       |
| ET 2419 STK 1 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 0,91           | 1,4      | 1,8      | 9,3            | Habia internal standard | 521012419       |
| ET 2219 STK 1 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,07           | 1,6      | 2,1      | 11             | Habia internal standard | 521012219       |
| ET 2019 STK 1 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,27           | 1,8      | 2,3      | 15             | Habia internal standard | 521012019       |
| ET 3207 STK 2 | 32   | 0,03            | 7 x 0,08  | 0,24   | 567                     | 0,56           | 1,6      | 2,0      | 7,9            | Habia internal standard | 521023207       |
| ET 3007 STK 2 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 0,61           | 1,7      | 2,1      | 8,6            | Habia internal standard | 521023007       |
| ET 2807 STK 2 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 0,69           | 1,8      | 2,3      | 10             | Habia internal standard | 521022807       |
| ET 2619 STK 2 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 0,79           | 2,2      | 2,6      | 14             | Habia internal standard | 521022619       |
| ET 2419 STK 2 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 0,91           | 2,4      | 2,9      | 17             | Habia internal standard | 521022419       |
| ET 2219 STK 2 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,07           | 2,8      | 3,3      | 22             | Habia internal standard | 521022219       |
| ET 2019 STK 2 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,27           | 3,2      | 3,8      | 29             | Habia internal standard | 521022019       |
| ET 3207 STK 3 | 32   | 0,03            | 7 x 0,08  | 0,24   | 567                     | 0,56           | 1,7      | 2,2      | 9,6            | Habia internal standard | 521033207       |
| ET 3007 STK 3 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 0,61           | 1,8      | 2,3      | 11             | Habia internal standard | 521033007       |
| ET 2807 STK 3 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 0,69           | 2,0      | 2,5      | 13             | Habia internal standard | 521032807       |
| ET 2619 STK 3 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 0,79           | 2,3      | 2,8      | 19             | Habia internal standard | 521032619       |
| ET 2419 STK 3 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 0,91           | 2,6      | 3,1      | 23             | Habia internal standard | 521032419       |
| ET 2219 STK 3 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,07           | 3,0      | 3,5      | 30             | Habia internal standard | 521032219       |
| ET 2019 STK 3 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,27           | 3,4      | 4,0      | 40             | Habia internal standard | 521032019       |
| ET 3207 STK 4 | 32   | 0,03            | 7 x 0,08  | 0,24   | 567                     | 0,56           | 1,9      | 2,4      | 11             | Habia internal standard | 521043207       |
| ET 3007 STK 4 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 0,61           | 2,1      | 2,5      | 13             | Habia internal standard | 521043007       |
| ET 2807 STK 4 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 0,69           | 2,2      | 2,7      | 17             | Habia internal standard | 521042807       |
| ET 2619 STK 4 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 0,79           | 2,6      | 3,1      | 22             | Habia internal standard | 521042619       |
| ET 2419 STK 4 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 0,91           | 2,8      | 3,3      | 29             | Habia internal standard | 521042419       |
| ET 2219 STK 4 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,07           | 3,2      | 3,8      | 36             | Habia internal standard | 521042219       |
| ET 2019 STK 4 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,27           | 3,7      | 4,3      | 79             | Habia internal standard | 521042019       |

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.

Ref: SSC-eETSTK-03  
Date: 2007-05-31  
Approved by:

**Properties:**

Thin wall, light weight  
Insulation

Flame retardant  
Low smoke generation

Excellent for use in oils,  
fuels, acids and bases

**Construction:**

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

**Colours:**

Single core  
Two cores  
Three cores  
Four cores  
Jacket

Silver Plated Copper (SPC)  
PTFE

Silver Plated Copper (SPC)

- 65 / +200°C  
600 V AC  
3400 V AC

White

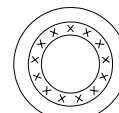
White / Red

White / Red / Black

White / Red / Black / Blue

White

**E-STK 1**



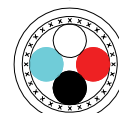
E-STK 2



**E-STK 3**



**E-STK 4**



**Notes:**

All dimensions nominal ( $\pm 4\%$ )

unless otherwise stated.

All dimensions in mm.

[illegible]

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.

Ref: SSC-eESTK-03

Rel. SSC-eESTK:  
Date: 2007-05-31

Approved by:

K

| Type         | Size |                 | Conductor |        |               | Finished Cable |          |          |                | Specification           | Order Reference |
|--------------|------|-----------------|-----------|--------|---------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|              | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                         |                 |
| E 3207 STK 3 | 32   | 0,03            | 7 x 0,08  | 0,24   | 567           | 0,74           | 2,2      | 2,6      | 11             | Habia internal standard | 522033207       |
| E 3007 STK 3 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330           | 0,81           | 2,3      | 2,8      | 13             | Habia internal standard | 522033007       |
| E 2807 STK 3 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209           | 0,84           | 2,5      | 3,0      | 19             | Habia internal standard | 522032807       |
| E 2607 STK 3 | 26   | 0,16            | 7 x 0,16  | 0,48   | 132           | 0,99           | 2,7      | 3,2      | 22             | Habia internal standard | 522032607       |
| E 2619 STK 3 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125           | 0,96           | 2,7      | 3,2      | 22             | Habia internal standard | 522032619       |
| E 2419 STK 3 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7          | 1,09           | 3,0      | 3,5      | 27             | Habia internal standard | 522032419       |
| E 2219 STK 3 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5          | 1,24           | 3,3      | 3,8      | 34             | Habia internal standard | 522032219       |
| E 2019 STK 3 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1          | 1,27           | 3,8      | 4,3      | 46             | Habia internal standard | 522032019       |
| E 1819 STK 3 | 18   | 0,96            | 19 x 0,25 | 1,21   | 18,9          | 1,73           | 4,3      | 5,0      | 61             | Habia internal standard | 522031819       |
| E 1619 STK 3 | 16   | 1,20            | 19 x 0,29 | 1,36   | 14,8          | 1,90           | 5,1      | 5,8      | 74             | Habia internal standard | 522031619       |
| E 1419 STK 3 | 14   | 2,00            | 19 x 0,36 | 1,70   | 9,44          | 2,29           | 5,6      | 6,3      | 100            | Habia internal standard | 522031419       |
| E 1219 STK 3 | 12   | 3,10            | 19 x 0,45 | 2,14   | 5,93          | 2,81           | 6,7      | 7,4      | 140            | Habia internal standard | 522031219       |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
| E 3207 STK 4 | 32   | 0,03            | 7 x 0,08  | 0,24   | 567           | 0,74           | 2,4      | 2,9      | 16             | Habia internal standard | 522043207       |
| E 3007 STK 4 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330           | 0,81           | 2,5      | 3,0      | 18             | Habia internal standard | 522043007       |
| E 2807 STK 4 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209           | 0,84           | 2,8      | 3,3      | 22             | Habia internal standard | 522042807       |
| E 2607 STK 4 | 26   | 0,16            | 7 x 0,16  | 0,48   | 132           | 0,99           | 3,0      | 3,5      | 25             | Habia internal standard | 522042607       |
| E 2619 STK 4 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125           | 0,96           | 3,0      | 3,5      | 27             | Habia internal standard | 522042619       |
| E 2419 STK 4 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7          | 1,09           | 3,3      | 3,8      | 32             | Habia internal standard | 522042419       |
| E 2219 STK 4 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5          | 1,24           | 3,7      | 4,2      | 41             | Habia internal standard | 522042219       |
| E 2019 STK 4 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1          | 1,27           | 4,2      | 4,9      | 56             | Habia internal standard | 522042019       |
| E 1819 STK 4 | 18   | 0,96            | 19 x 0,25 | 1,21   | 18,9          | 1,73           | 4,8      | 5,5      | 76             | Habia internal standard | 522041819       |
| E 1619 STK 4 | 16   | 1,20            | 19 x 0,29 | 1,36   | 14,8          | 1,90           | 5,6      | 6,3      | 93             | Habia internal standard | 522041619       |
| E 1419 STK 4 | 14   | 2,00            | 19 x 0,36 | 1,70   | 9,44          | 2,29           | 6,2      | 6,9      | 130            | Habia internal standard | 522041419       |
| E 1219 STK 4 | 12   | 3,10            | 19 x 0,45 | 2,14   | 5,93          | 2,81           | 7,5      | 8,2      | 175            | Habia internal standard | 522041219       |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |
|              |      |                 |           |        |               |                |          |          |                |                         |                 |

#### Properties:

Thin wall, light weight  
Insulation

Flame retardant  
Low smoke generation

Excellent for use in oils,  
fuels, acids and bases

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

#### Colours:

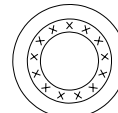
Single core  
Two cores  
Three cores  
Four cores  
Jacket

Silver Plated Copper (SPC)  
PTFE

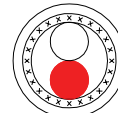
Silver Plated Copper (SPC)  
FEP  
- 65 / +200°C  
1000 V AC  
5000 V AC

White  
White / Red  
White / Red / Black  
White / Red / Black / Blue  
White

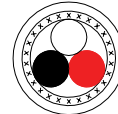
#### EE-STK 1



#### EE-STK 2



#### EE-STK 3



#### EE-STK 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ )  
unless otherwise stated.  
All dimensions in mm.

| Type          | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification           | Order Reference |
|---------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|               | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                         |                 |
| EE 3007 STK 1 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 1,07           | 1,5      | 2,0      | 9              | Habia internal standard | 502013007       |
| EE 2807 STK 1 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 1,14           | 1,6      | 2,1      | 10             | Habia internal standard | 502012807       |
| EE 2619 STK 1 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 1,24           | 1,7      | 2,2      | 11             | Habia internal standard | 502012619       |
| EE 2419 STK 1 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 1,37           | 1,8      | 2,3      | 14             | Habia internal standard | 502012419       |
| EE 2219 STK 1 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,52           | 2,0      | 2,5      | 15             | Habia internal standard | 502012219       |
| EE 2019 STK 1 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,73           | 2,2      | 2,7      | 20             | Habia internal standard | 502012019       |
| EE 1819 STK 1 | 18   | 0,96            | 19 x 0,25 | 1,21   | 18,9                    | 2,00           | 2,5      | 3,0      | 25             | Habia internal standard | 502011819       |
| EE 1619 STK 1 | 16   | 1,20            | 19 x 0,29 | 1,36   | 14,8                    | 2,26           | 2,7      | 3,2      | 27             | Habia internal standard | 502011619       |
| EE 3007 STK 2 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 1,07           | 2,6      | 3,1      | 15             | Habia internal standard | 502023007       |
| EE 2807 STK 2 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 1,14           | 2,7      | 3,2      | 17             | Habia internal standard | 502022807       |
| EE 2619 STK 2 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 1,24           | 2,9      | 3,4      | 21             | Habia internal standard | 502022619       |
| EE 2419 STK 2 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 1,37           | 3,2      | 3,7      | 23             | Habia internal standard | 502022419       |
| EE 2219 STK 2 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,52           | 3,5      | 4,0      | 27             | Habia internal standard | 502022219       |
| EE 2019 STK 2 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,73           | 3,9      | 4,6      | 38             | Habia internal standard | 502022019       |
| EE 1819 STK 2 | 18   | 0,96            | 19 x 0,25 | 1,21   | 18,9                    | 2,00           | 4,5      | 5,2      | 51             | Habia internal standard | 502021819       |
| EE 1619 STK 2 | 16   | 1,20            | 19 x 0,29 | 1,36   | 14,8                    | 2,26           | 5,0      | 5,7      | 54             | Habia internal standard | 502021619       |
| EE 3007 STK 3 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 1,07           | 2,8      | 3,3      | 20             | Habia internal standard | 502033007       |
| EE 2807 STK 3 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 1,14           | 2,9      | 3,4      | 23             | Habia internal standard | 502032807       |
| EE 2619 STK 3 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 1,24           | 3,1      | 3,6      | 26             | Habia internal standard | 502032619       |
| EE 2419 STK 3 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 1,37           | 3,4      | 3,9      | 31             | Habia internal standard | 502032419       |
| EE 2219 STK 3 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,52           | 3,7      | 4,2      | 37             | Habia internal standard | 502032219       |
| EE 2019 STK 3 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,73           | 4,2      | 4,9      | 50             | Habia internal standard | 502032019       |
| EE 1819 STK 3 | 18   | 0,96            | 19 x 0,25 | 1,21   | 18,9                    | 2,00           | 4,8      | 5,5      | 68             | Habia internal standard | 502031819       |
| EE 1619 STK 3 | 16   | 1,20            | 19 x 0,29 | 1,36   | 14,8                    | 2,26           | 5,3      | 6,0      | 74             | Habia internal standard | 502031619       |
| EE 3007 STK 4 | 30   | 0,06            | 7 x 0,10  | 0,30   | 330                     | 1,07           | 3,0      | 3,5      | 24             | Habia internal standard | 502043007       |
| EE 2807 STK 4 | 28   | 0,09            | 7 x 0,13  | 0,38   | 209                     | 1,14           | 3,2      | 3,7      | 26             | Habia internal standard | 502042807       |
| EE 2619 STK 4 | 26   | 0,16            | 19 x 0,10 | 0,48   | 125                     | 1,24           | 3,5      | 4,0      | 32             | Habia internal standard | 502042619       |
| EE 2419 STK 4 | 24   | 0,24            | 19 x 0,13 | 0,60   | 79,7                    | 1,37           | 3,8      | 4,3      | 37             | Habia internal standard | 502042419       |
| EE 2219 STK 4 | 22   | 0,38            | 19 x 0,16 | 0,76   | 49,5                    | 1,52           | 4,1      | 4,8      | 48             | Habia internal standard | 502042219       |
| EE 2019 STK 4 | 20   | 0,61            | 19 x 0,20 | 0,97   | 30,1                    | 1,73           | 4,6      | 5,3      | 63             | Habia internal standard | 502042019       |
| EE 1819 STK 4 | 18   | 0,96            | 19 x 0,25 | 1,21   | 18,9                    | 2,00           | 5,3      | 6,0      | 85             | Habia internal standard | 502041819       |
| EE 1619 STK 4 | 16   | 1,20            | 19 x 0,29 | 1,36   | 14,8                    | 2,26           | 5,9      | 6,6      | 92             | Habia internal standard | 502041619       |

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.

Ref: SSC-eEESTK-04

Date: 2007-05-31

Approved by:

## Shielded Signal Cables, 250V, +200°C, NF C 93-523

PTFE/FEP

**Properties:**

Thin wall, light weight  
Insulation

Flame retardant  
Low smoke generation

Excellent for use in oils,  
fuels, acids and bases

**Construction:**

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

**Colours:**

Single core  
Two cores  
Three cores  
Four cores  
Jacket

Silver Plated Copper (SPC)  
PTFE

PTFE

## Polyimide

Silver Plated Copper (SPC)  
FEP

FEP

-65 / +200°C

250 V AC

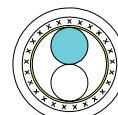
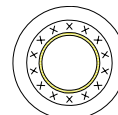
600 V AC

White

Blue / White

Orange / Blue / White

White



**Notes:**

All dimensions nominal ( $\pm 4\%$ )

unless otherwise stated.

All dimensions in mm.

[illegible]

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.

Ref: SSC-eK7556779-03

Rel. SSC-eKZ556  
Date: 2008-03-12

Approved by:

K

#### Properties:

Ultra thin wall, light insulation

Flame retardant  
Low smoke generation

Excellent for use in oils, fuels, acids and bases

#### Construction:

Conductor  
Insulation  
Shield  
Jacket  
Temperature rating  
Voltage  
Test voltage

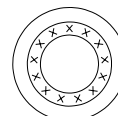
#### Colours:

Single core  
Two cores  
Three cores  
Four cores  
Jacket

PTFE  
Silver Plated Copper (SPC)  
FEP  
- 65 / +200°C  
160 V AC  
400 V AC

White  
White / Red  
White / Red / Black  
White / Red / Black / Blue  
White

#### H-UT-STK 1



#### H-UT-STK 2



#### H-UT-STK 3



#### H-UT-STK 4



#### Notes:

All dimensions nominal ( $\pm 4\%$ )  
unless otherwise stated.  
All dimensions in mm.

| Type            | Size |                 | Conductor |        |                         | Finished Cable |          |          |                | Specification           | Order Reference |
|-----------------|------|-----------------|-----------|--------|-------------------------|----------------|----------|----------|----------------|-------------------------|-----------------|
|                 | AWG  | mm <sup>2</sup> | Stranding | Wire Ø | DC Res @ 20°C (Ohms/km) | Core Ø         | Shield Ø | Jacket Ø | Weight (kg/km) |                         |                 |
| H-UT 3607 STK 1 | 36   | 0,01            | 7 x 0,05  | 0,15   | 1550                    | 0,34           | 0,62     | 1,05     | 2,0            | Habia internal standard | 703-00031-001   |
| H-UT 3407 STK 1 | 34   | 0,02            | 7 x 0,06  | 0,19   | 977                     | 0,36           | 0,66     | 1,10     | 2,5            | Habia internal standard | 703-00031-002   |
| H-UT 3207 STK 1 | 32   | 0,03            | 7 x 0,08  | 0,24   | 621                     | 0,42           | 0,72     | 1,15     | 3,0            | Habia internal standard | 703-00031-003   |
| H-UT 3007 STK 1 | 30   | 0,06            | 7 x 0,10  | 0,30   | 373                     | 0,49           | 0,79     | 1,25     | 3,5            | Habia internal standard | 703-00031-006   |
| H-UT 2807 STK 1 | 28   | 0,09            | 7 x 0,13  | 0,38   | 210                     | 0,56           | 0,86     | 1,30     | 4,0            | Habia internal standard | 703-00031-009   |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
| H-UT 3607 STK 2 | 36   | 0,01            | 7 x 0,05  | 0,15   | 1550                    | 0,34           | 1,2      | 1,6      | 4,5            | Habia internal standard | 703-00032-001   |
| H-UT 3407 STK 2 | 34   | 0,02            | 7 x 0,06  | 0,19   | 977                     | 0,36           | 1,3      | 1,7      | 5,0            | Habia internal standard | 703-00032-002   |
| H-UT 3207 STK 2 | 32   | 0,03            | 7 x 0,08  | 0,24   | 621                     | 0,42           | 1,4      | 1,8      | 6,0            | Habia internal standard | 703-00032-003   |
| H-UT 3007 STK 2 | 30   | 0,06            | 7 x 0,10  | 0,30   | 373                     | 0,49           | 1,5      | 2,0      | 7,0            | Habia internal standard | 703-00032-006   |
| H-UT 2807 STK 2 | 28   | 0,09            | 7 x 0,13  | 0,38   | 210                     | 0,56           | 1,7      | 2,1      | 8,0            | Habia internal standard | 703-00032-009   |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
| H-UT 3607 STK 3 | 36   | 0,01            | 7 x 0,05  | 0,15   | 1550                    | 0,34           | 1,2      | 1,7      | 6,0            | Habia internal standard | 703-00033-001   |
| H-UT 3407 STK 3 | 34   | 0,02            | 7 x 0,06  | 0,19   | 977                     | 0,36           | 1,3      | 1,8      | 7,0            | Habia internal standard | 703-00033-002   |
| H-UT 3207 STK 3 | 32   | 0,03            | 7 x 0,08  | 0,24   | 621                     | 0,42           | 1,4      | 1,9      | 8,0            | Habia internal standard | 703-00033-003   |
| H-UT 3007 STK 3 | 30   | 0,06            | 7 x 0,10  | 0,30   | 373                     | 0,49           | 1,6      | 2,1      | 9,5            | Habia internal standard | 703-00033-006   |
| H-UT 2807 STK 3 | 28   | 0,09            | 7 x 0,13  | 0,38   | 210                     | 0,56           | 1,7      | 2,2      | 11             | Habia internal standard | 703-00033-009   |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
| H-UT 3607 STK 4 | 36   | 0,01            | 7 x 0,05  | 0,15   | 1550                    | 0,34           | 1,3      | 1,8      | 6,5            | Habia internal standard | 703-00034-001   |
| H-UT 3407 STK 4 | 34   | 0,02            | 7 x 0,06  | 0,19   | 977                     | 0,36           | 1,4      | 1,9      | 7,5            | Habia internal standard | 703-00034-002   |
| H-UT 3207 STK 4 | 32   | 0,03            | 7 x 0,08  | 0,24   | 621                     | 0,42           | 1,6      | 2,0      | 9,0            | Habia internal standard | 703-00034-003   |
| H-UT 3007 STK 4 | 30   | 0,06            | 7 x 0,10  | 0,30   | 373                     | 0,49           | 1,7      | 2,2      | 11             | Habia internal standard | 703-00034-006   |
| H-UT 2807 STK 4 | 28   | 0,09            | 7 x 0,13  | 0,38   | 210                     | 0,56           | 1,9      | 2,4      | 13             | Habia internal standard | 703-00034-009   |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |
|                 |      |                 |           |        |                         |                |          |          |                |                         |                 |

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.

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