

(1.27 mm) .050"

SFSD-20-30-G-05.00-DS-NUS

SFSDT-10-28-G-05.00-DR-NUS

SFSD, SFSDT SERIES

# TIGER EYE<sup>™</sup> DISCRETE CABLE ASSEMBLY

## SPECIFICATIONS

For complete specifications see [www.samtec.com?SFSD](http://www.samtec.com?SFSD) or [www.samtec.com?SFSDT](http://www.samtec.com?SFSDT)

### Insulator Material:

Black LCP

### Contact Material:

BeCu

### Plating:

Au over 50  $\mu$ " (1.27  $\mu$ m) Ni

### Current Rating (SFSD/TFC):

2.9 A per pin

(2 pins powered)

### Operating Temp Range:

-10 °C to +80 °C (PVC)

-40 °C to +125 °C (\*Teflon<sup>®</sup>)

### Voltage Rating:

275 VAC (PVC)

235 VAC (\*Teflon<sup>®</sup>)

### Wire: 28 or 30 AWG

### RoHS Compliant:

Yes

\*DuPont<sup>™</sup> Teflon<sup>®</sup> is a registered trademark of the E.I. du Pont de Nemours and Company or its affiliates.

### Mates with:

TFM, TFC

(-SR &amp; -DR requires

-WT option)



## -SR/-DR APPLICATIONS

When Mated to TFM-WT

| Terminal/Housing Retention |                   |
|----------------------------|-------------------|
| Min                        | (22.25 N) 5.0 lb  |
| Max                        | (26.52 N) 5.96 lb |
| Avg                        | (24.34 N) 5.47 lb |

| Wire/Crimp Retention |                   |
|----------------------|-------------------|
| Min                  | (20.47 N) 4.6 lb  |
| Max                  | (36.49 N) 8.2 lb  |
| Avg                  | (29.95 N) 6.73 lb |

## ALSO AVAILABLE (MOQ Required)

- Other sizes
- Locking feature for mating to the TFML Series
- Color coded cable (\*Teflon<sup>®</sup> N/A)
- Other plating options

Single or double ended

Retention latch and screw down options

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## COMPONENTS

- For body, see [www.samtec.com?ISDF](http://www.samtec.com?ISDF)
- For contacts, see [www.samtec.com?CC03R](http://www.samtec.com?CC03R)  
[www.samtec.com?CC03M](http://www.samtec.com?CC03M)

## APPLICATION

### -28C CABLE COLOR CODING

| PIN | COLOR  |
|-----|--------|
| 1   | BROWN  |
| 2   | RED    |
| 3   | ORANGE |
| 4   | YELLOW |
| 5   | GREEN  |
| 6   | VIOLET |
| 7   | GRAY   |
| 8   | WHITE  |
| 9   | BLACK  |
| 10  | BLUE   |
| ETC | REPEAT |

### Notes:

For wiring option and pin position location information, refer to drawings on web.

Some lengths, styles and options are non-standard, non-returnable.

## TYPE STRIP

**SFSD**  
= Double Row  
PVC Cable

**SFSDT**  
= Double Row  
\*Teflon<sup>®</sup> Cable

## POSITIONS PER ROW

-03, -04,  
-05, -07,  
-10, -15,  
-20, -25,  
-40, -50  
(Standard sizes)

## WIRE GAUGE

-28  
= 28 AWG
-28C  
= Color Coded Cable  
(SFSD only)
-30  
= 30 AWG

## PLATING OPTION

-G  
= 10  $\mu$ "  
(0.25  $\mu$ m)  
Gold on contact,  
Gold Flash on balance

## ASSEMBLED LENGTH

-“XX.XX”  
= Assembled Length in Inches  
(76.20 mm)  
03.00" min. for -S end option  
03.25" min. for -D end option

## END OPTION

-S  
= Single Ended  
-D  
= Double Ended

For -(X) specify "S" for single ended and "D" for double ended.

-(X)R  
= Retention Latch  
(TFM -WT option required for mating)

-(X)S  
= Screw Down  
(Not available in -03, -04 & -50 positions)  
(Mates with TFM-DS option)

## END 2 OPTION

Requires -D, -DS, -DR  
(End 1 Notch Up)

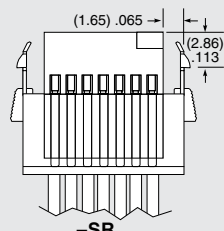
-NUS  
= Notch up, straight  
(Pin 1 to Pin N-1)

-NDS  
= Notch down, straight  
(Pin 1 to Pin 2)

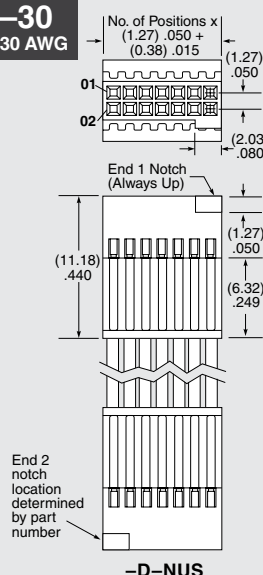
-NUX  
= Notch up, crossed  
(Pin 1 to Pin N)

-NDX  
= Notch down, crossed  
(Pin 1 to Pin 1)

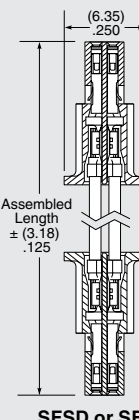
**Note:**  
Teflon<sup>®</sup> cable is intended for crimp only. Contact Samtec for solderable cable applicators.



-SR



-D-NUS



SFSD or SFSDT

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.