



**(1.27 mm) .050" PITCH • DISCRETE WIRE ASSEMBLY/COMPONENTS**

| SERIES                                                                                                      | POSITIONS PER ROW                                                           | WIRE GAUGE                                                                                                 | PLATING OPTION                                                        | ASSEMBLED LENGTH                                                                                                                        | END OPTION                                                                                                                                                                                                                                                                                                             | END 2 OPTION                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SFSD</b><br>= Double Row PVC Cable<br><br><b>SFSDT</b><br>= Double Row Blue *Teflon™ Fluoropolymer Cable | <b>-03, -04, -05, -07, -10, -15, -20, -25, -40, -50</b><br>(Standard sizes) | <b>-28</b><br>= 28 AWG<br><br><b>-28C</b><br>= Color Coded Cable (SFSD only)<br><br><b>-30</b><br>= 30 AWG | <b>-G</b><br>= 10 μ" (0.25 μm) Gold on contact, Gold Flash on balance | <b>-"XX.XX"</b><br>= Assembled Length in Inches (76.20 mm)<br>03.00" min. for -S end option (82.60 mm)<br>03.25" min. for -D end option | <b>-S</b><br>= Single Ended<br><br><b>-D</b><br>= Double Ended For -(X) specify "S" for single ended and "D" for double ended.<br><br><b>-(X)R</b><br>= Retention Latch (TFM-WT option required for mating)<br><br><b>-(X)S</b><br>= Screw Down (Not available in -03, -04 & -50 positions) (Mates with TFM-DS option) | Requires -D, -DS, -DR (End 1 Notch Up)<br><br><b>-NUS</b><br>= Notch up, straight (Pin 1 to Pin N-1)<br><br><b>-NDS</b><br>= Notch down, straight (Pin 1 to Pin 2)<br><br><b>-NUX</b><br>= Notch up, crossed (Pin 1 to Pin N)<br><br><b>-NDX</b><br>= Notch down, crossed (Pin 1 to Pin 1) |

**SFSD(T) Board Mates:** TFM, TFML, TFC (-SR & -DR requires -WT option)

**SPECIFICATIONS**

**Insulator Material:** Black LCP  
**Contact Material:** BeCu  
**Plating:** Au over 50 μ" (1.27 μm) Ni  
**Current Rating:** 2.9 A per pin (2 pins powered)  
**Operating Temp Range:** -10 °C to +80 °C (PVC) -40 °C to +125 °C (\*Teflon™ Fluoropolymer)  
**Voltage Rating:** 280 VAC (PVC) 313 VAC (\*Teflon™ Fluoropolymer)  
**Wire:** 28 or 30 AWG

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

Diagrams showing dimensions: (11.18) .440, (6.35) .250, Assembled Length ± (3.18) .125. Labels: End 1 Notch (Always Up), End 2 notch location determined by part number.

\*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

**Notes:** Teflon™ Fluoropolymer cable is intended for crimp only. Contact Samtec for solderable cable applications.

For wiring option information refer to drawings on web.

View complete specifications at: [samtec.com?SFSD](http://samtec.com?SFSD) & [samtec.com?SFSDT](http://samtec.com?SFSDT)

| ISDF | POSITIONS PER ROW                                                           | ROW OPTION                | OPTION                                                                | SERIES                                                                                                                                  | WIRE GAUGE                     | 01 | PLATING                                                                                  |
|------|-----------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----|------------------------------------------------------------------------------------------|
|      | <b>-03, -04, -05, -07, -10, -15, -20, -25, -40, -50</b><br>(Standard sizes) | <b>-D</b><br>= Double Row | <b>-M</b><br>= Metal Retention Latch<br><br><b>-S</b><br>= Screw Down | <b>CC03R</b><br>= Contact, Full Reel (35,000 Parts per Reel)<br><br><b>CC03M</b><br>= Contact, Mini Reel (1,000 - 5,000 Parts per Reel) | <b>-2830</b><br>= 28 to 30 AWG |    | <b>-GF</b><br>= Gold flash contact<br><br><b>-G</b><br>= 10 μ" (0.25 μm) Gold on contact |

Diagrams showing dimensions: (11.18) .440, (6.32) .249, (6.35) .250, (15.37) .605, (3.81) .150. Labels: No. of Positions x (1.27) .050 + (0.38) .015.

**TOOLING**



|                                             |                                        |
|---------------------------------------------|----------------------------------------|
| Hand Tool: CAT-HT-203-2830-12               | Mini Applicator: CAT-MC-203-2830-XX-01 |
| Clamp for mounting hand tool: CAT-HT-MNT-01 | Extraction Tool: CAT-EX-169-01         |

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

View complete specifications at: [samtec.com?ISDF](http://samtec.com?ISDF), [samtec.com?CC03R](http://samtec.com?CC03R) & [samtec.com?CC03M](http://samtec.com?CC03M)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View SFSD-20-28-H-03.40-DR-NDX on WIN SOURCE](#)
-  [Samtec Inc. Information](#)

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