

November 2, 2006



**Sabritec**

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**Application Note: Quadrax/Twinax Contacts**

Sabritec's design of Quad and Twinax contacts for the MIL-DTL-38999/III and Rugged D-sub connectors have evolved due to our customer's feedback. Several of the catalog part numbers are not recommended for new designs.

Sabritec has improved the design from the solder/rear clamp nut to a 100% crimp design. Below are tables with part numbers and recommended replacements:

**For 38999 Style Fibre Channel Connectors 016401-2012, 016401-3013, 016400-2026, 016400-3026:**

<u>Not recommended</u> for new applications		<u>Recommended</u> for new applications	
Part Number	Description	Part Number	Description
019535-8000	Size 8 Quad Socket Contact, 100 Ohm (540-1165-000) solder clamp nut	019535-8004	Size 8 Quad Socket Contact, 100 Ohm, Crimp (540-1165-000, NF24Q100)
019635-8000	Size 8 Quad Pin Contact, 100 Ohm (540-1165-000) solder clamp nut	019635-8004	Size 8 Quad Pin Contact, 100 Ohm, Crimp (540-1165-000, NF24Q100)
019534-8003	Size 8 Twinax Socket Contact, 100 Ohm ( 540-1153-000)	019534-8011	Size 8 Twinax Socket Contact, Crimp 100 Ohm ( 540-1167-000)
019634-8003	Size 8 Twinax Pin Contact, 100 Ohm ( 540-1153-000)	019634-8011	Size 8 Twinax Pin Contact, Crimp 100 Ohm ( 540-1167-000)

**For Rugged Dsub 012700-200X, 012800-300X:**

<u>Not recommended</u> for new applications		<u>Recommended</u> for new applications	
Part Number	Description	Part Number	Description
N/A	N/A	019235-8000	Size 9 Quadrax Pin Crimp contact 100 ohm (540-1165-000, NF24Q100)
N/A	N/A	019135-8000	Size 9 Quadrax Skt Crimp contact 100 ohm (540-1165-000, NF24Q100)
019235-0000	Size 9 Twinax Pin contact 100 ohm (540-1153-000)	019234-2002	Size 9 Twinax Pin Contact, Crimp 100 Ohm ( 540-1167-000)
019135-0000	Size 9 Twinax Skt contact 100 ohm (540-1153-000)	019134-2002	Size 9 Twinax Socket Contact, Crimp 100 Ohm ( 540-1167-000)

Quadrax Cable:

We now recommend the Tensolite NF24Q100, 100 Ohm differential Quadrax 24 cable instead of the 540-1165-000 cable we offered in the past. The reason is that Tensolite performs very well and is easier to terminate to the contacts. The Sabritec PN for this cable is 540-1183-000.

**Twinax Cable:**

Sabritec PN 540-1153-000, 100 Ohm differential pair 26 AWG cable, is very light weight and good for short runs, i.e. 2-15 ft (depending on speed).

Sabritec PN 540-1167-000, 100 Ohm differential pair 24 AWG cable is better for high speed and longer runs, i.e. 15-25 ft (depending on speed).



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