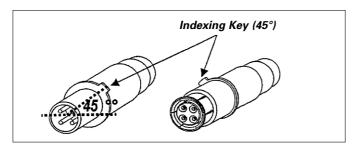
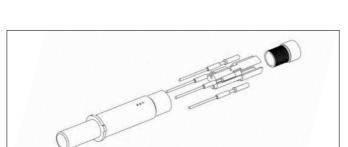
1 - DESCRIPTION

- Four # 24 pin contacts with 360° shielding
- Compact design allows mounting into # 8 cavity dimensions
- Replaces the use of 2 twinax contacts with 30% shorter cabling time and better performance
- Front and rear removable versions available
- Crimp and PC tail versions available

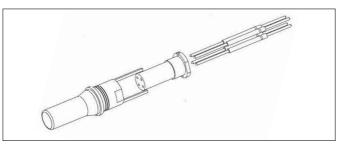
Key features

- Crimped signal contacts, crimped # 8 body
- Standard # 8 cavity insertion and removal tools
- Ground connection of the cable braid to the shell possible through the external shell of the # 8 contacts
- Compatible with star quad cable and twinax cable
- \blacksquare Characteristic impedance of 100 Ω or 150 Ω
- Operating temperature: 65°C/+200°C.



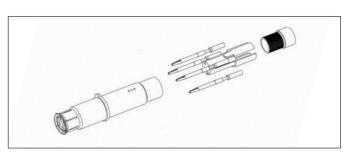


Pin to crimp



PC Tail Pin





Socket to crimp



2 - TECHNICAL CHARACTERISTICS

Mechanical

- Endurance: minimum 500 mating / unmating operations in any connector
- Shocks: 300 g, 3 ms as per EN-2591-6404 method A and MIL-STD 1344 in 38999 connector
- Vibrations:
 - Random 100 to 1000 Hz, 3 x 8 hours
 0.2 g²/Hz, as per MIL-STD 1344 A,
 Method 2005.1, level E, test V, in ARINC 600 connector
 - Random, 3 x hours 0.2 g²/Hz, as per EN-2591-6403 Method B, level J in 38999 connector
- Contact retention: minimum 155 N
- Contact insertion force: maximum 11 N

Environmental

- Salt spray: 48 hours minimum, as per MIL-STD 1344 A, method 1003
- Temperature range: -65° C, +200° C
- Sealing in connector insert (for sealed Quadrax version):
 - Altitude immersion 2 kPa in accordance with EN 2591-6303 table 7 and MIL-STD 1344
 - IP 68

Material

■ Inner contact: copper alloy

■ Body: copper alloy

■ Insulator: thermoplastic

■ Contact plating: gold over nickel plated

Electrical performances

■ Contact resistance (low level): initial 15 m Ω , after tests 30 m Ω

■ Contact resistance at rated current:

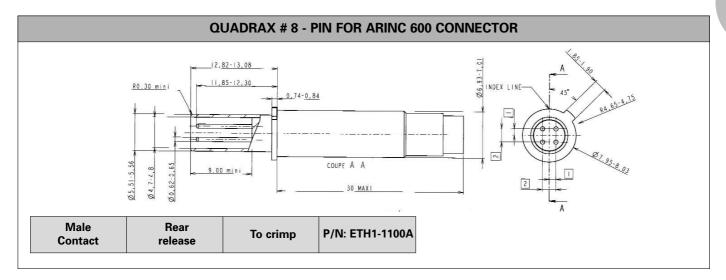
		Max contact resistance (m Ω)		
		23° C		200° C
Contact	Rated current (A)	Initial	After tests	After tests
Signal contacts	1	15	30	45
Outer body	12	3	4	6

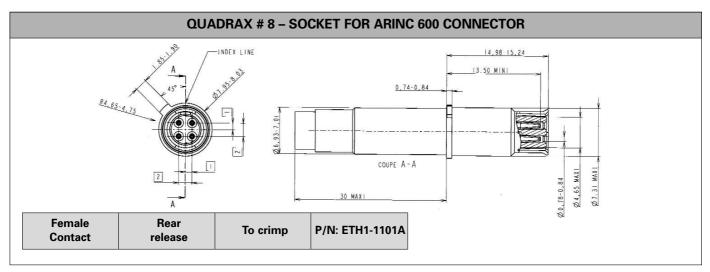
- Dielectric withstanding voltage:
 Sea level = 500 Vrms between signal contacts and signal contact/body
 21000 m = 125 Vrms between signal contacts and signal contact/body
- \blacksquare Insulation resistance: at ambient temperature > 5000 MΩ, at high temperature > 1000 MΩ
- lacktriangle Characteristic impedance: 100 Ω @ 100 MHz
- Attenuation ≤ 0.3 dB @ 100 MHz typical per contact pair (cat 5E requirement = 0.3 dB @ 100 MHz)
- Crosstalk ≥ 40 dB @ 100 MHz typical (cat 5E requirement = 40 dB)

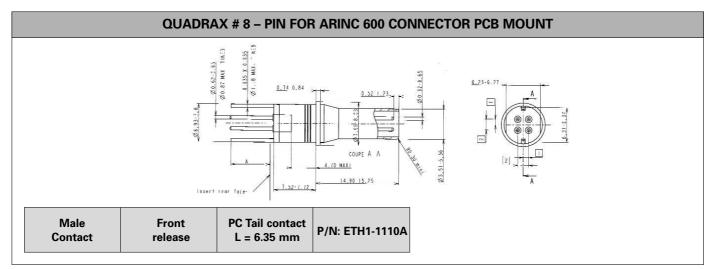


3 - DIMENSIONS AND PART NUMBERS

A/ For Arinc 600 Connectors

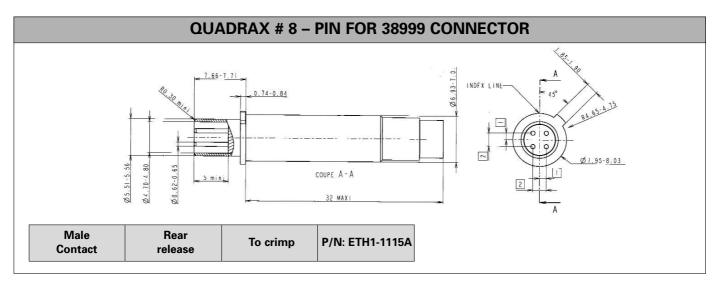


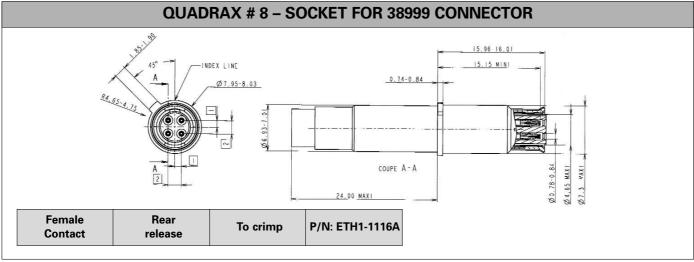


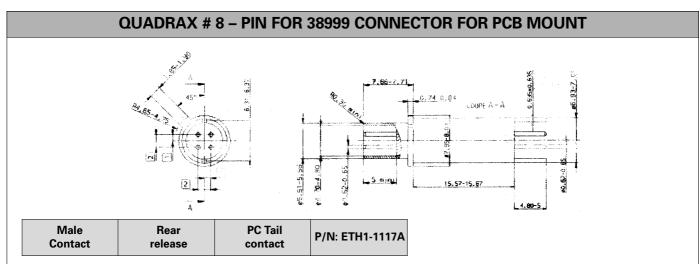




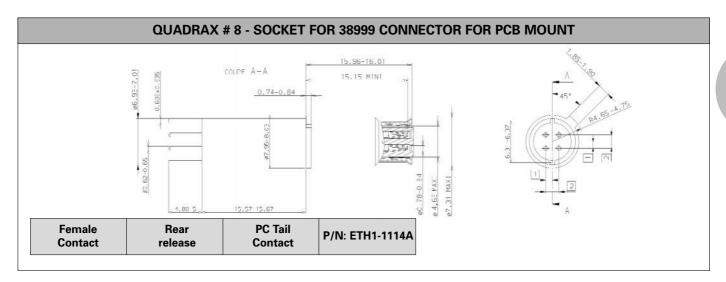
B/ For MIL-DTL-38999 Connectors





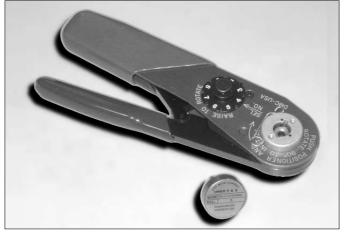






4 - TOOLING DATA

A/ Crimping tools



Ref: M22520/2-01 and K709



Ref: M22520/5-01 and M22520/5-45

B/ Insertion and extraction tool

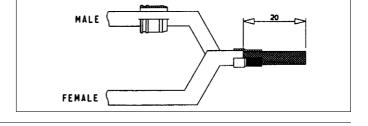


Ref: 8660-19/7

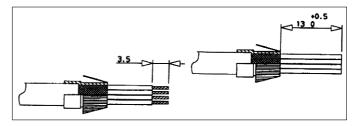


5 - WIRING INSTRUCTION

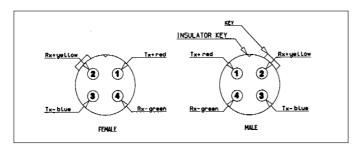
- Fit the supply guide on the cable for the male contact.
- Strip braid back 20 mm.
- Install the ferrule



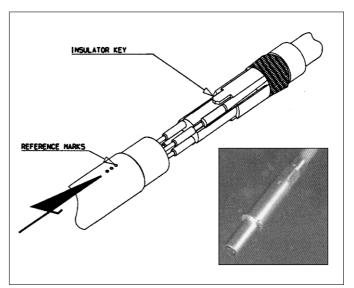
- Twist braid around the ferrule
 Trim the wires back 13 mm 0/+0,5
 TAKE CARE TO HAVE THE SAME LENGTH FOR THE 4 WIRES
 Cut the braid, leaving the rear part of the ferrule exposed
- Strip the wires back 3,5 mm
 Crimp the contacts using M22520/2-01 tool and K709 positioner, setting number 5



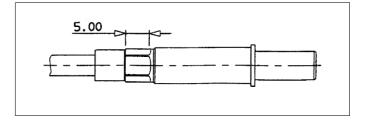
 Put the wired contacts in the insulator (see the front face view for positioning)



Align the insulator key with the reference marks. Insert until the knurled part of the ferrule is inside the body



 Insure that all the pieces are held in place before and during crimping. Crimp braid and outer jacket using M22520/5-01 tool and M22520/5-45 die set rep B. Crimp length: 5 mm



6 - RECOMMENDED CABLES

Supplier	Characteristic impedance	P/N	Cable type	Number of pairs
Draka	100 Ω	F4703-38	Star quad	2
Nexans	100 Ω	ET2PC236	Star quad	2