AVP DIN 1.0/2.3 Connector Series

The DIN 1.0/2.3 75 ohm connector series compact design permits dense connector packing and makes them ideal solutions to applications where space limitation is a factor.

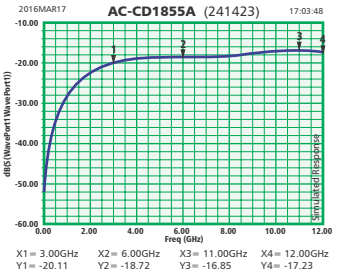
DIN 1.0/2.3 connector performance specifications support high data rates for AES Audio, SD video, HD video, 3Gb/s video, and other high density digital broadcast formats.

AVP 1.0/2.3 connector series feature push-pull coupling allowing quick installation and ensures positive locking and high retention.

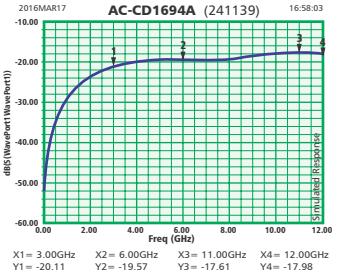
Features & Benefits

- Push-pull coupling with locking mechanism allows quick installation, will not vibrate loose and will not disconnect during trouble shooting
- 1.0/2.3 connectors are able to be densely packed, saving panel space in components
- Operation up to 6GHz
- Supports 3Gbps HD SDI SMPTE 424M applications
- Standard crimp tooling can be used
- Center Pin plating: gold 3μin minimum over 80μin minimum nickel plating

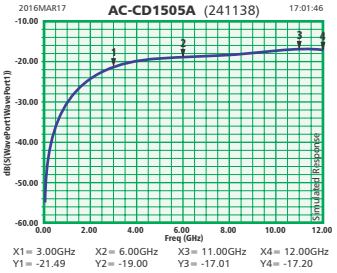
AC-CD1855A



AC-CD1694A



AC-CD1505A



Models and Components

Model	Description
AVP DIN 1.0/2.3 Connector, terminate **Belden 1855A** or equivalent, includes center pin and ferrule	
AC-CD1855A-001	1 Single Pack
AC-CD1855A-010	10 Single Packs
AC-CD1855A-100	100 Single Packs
AC-CD1855A-100B	100 Connectors, bulk packed
AVP DIN 1.0/2.3 Connector, terminate **Belden 1694A** or equivalent, includes center pin and ferrule	
AC-CD1694A-001	1 Single Pack
AC-CD1694A-010	10 Single Packs
AC-CD1694A-100	100 Single Packs
AC-CD1694A-100B	100 Connectors, bulk packed
AVP DIN 1.0/2.3 Connector, terminate **Belden 1505A** or equivalent, includes center pin and ferrule	
AC-CD1505A-001	1 Single Pack
AC-CD1505A-010	10 Single Packs
AC-CD1505A-100	100 Single Packs
AC-CD1505A-100B	100 Connectors, bulk packed

Model	Description
Tooling	
AT-DAFM8	Daniels Hand Crimp Tool AFM8, to crimp center pin, all models
AT-DK1978	Daniels Positioner, to set depth and center pin for Daniels AFM8
AT-DHX4	Daniels Hand Crimp Tool HX4, to crimp ferrules, die required
AT-DY1855A	Die Set Y2000P for Daniels HX4/HX23, to crimp 1855A ferrule
AT-DY1694A	Die Set for Daniels HX4/HX23, to crimp 1694A ferrule
AT-DY1505A	Die Set Y2070 for Daniels HX4/HX23, to crimp 1505A ferrule
AT-CJ-DIN	AVP DIN1.0/2.3 centering jig, keeps center pin concentric while crimping outer, for all Din1.0/2.3

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DIN 1.0/2.3 Assembly Instructions for 1855A, 1694A and 1505A

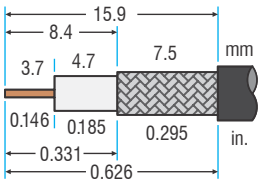
Required:

Belden Cable 1855A, 1694A or 1505A

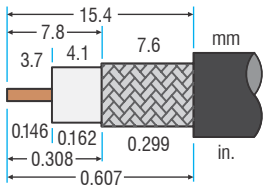
	AVP DIN 1.0/2.3 Connectors for;
AC-CD1855A	Belden 1855A Cable
AC-CD1694A	Belden 1694A Cable
AC-CD1505A	Belden 1505A Cable
AT-DAFM8	Daniels Hand Crimp Tool AFM8, to crimp center pin, all models
AT-DK1978	Daniels Positioner, to set depth and center pin for Daniels AFM8
AT-DHX4	Daniels Hand Crimp Tool HX4, to crimp ferrules, die required
AT-DY1855A	Die Set Y2000P for Daniels HX4/HX23, to crimp 1855A ferrule
AT-DY1694A	Die Set Y2113 for Daniels HX4/HX23, to crimp 1694A ferrule
AT-DY1505A	Die Set Y2070P for Daniels HX4/HX23, to crimp 1505A ferrule
AT-CJ-DIN	AVP DIN1.0/2.3 Centering Jig, keeps center pin concentric while crimping

Stripping Tool

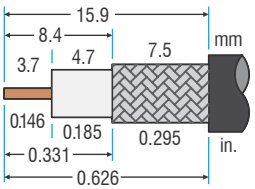
AC-CD1855A



AC-CD1694A

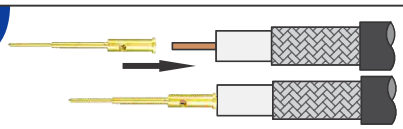


AC-CD1505A



1 Prepare cable to dimensions shown, being careful not to damage the braid, foil or inner conductor. Slide ferrule onto cable and flair braid to facilitate insertion of body. Important: Do not nick braid or center conductor of cable.

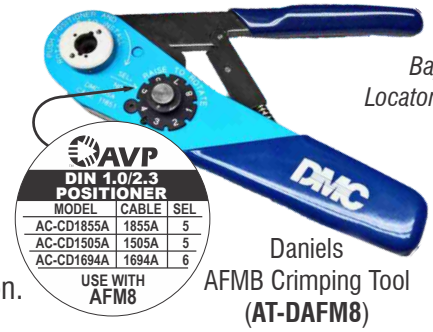
2



Insert center conductor into Center Pin as shown. Make sure center conductor of cable is visible inside hole of Center Pin.

3 Crimp Center Pin on to cable center conductor using Daniels AFMB Crimping Tool **(AT-DAFM8)** fitted with Daniels Positioner **(AT-DK1978)**.

Important: Make sure the selector setting on the tool is set at the appropriate number; (**5** for **1855A** and **1505A, 6** for **1694A**). Perform a light pull test to verify termination.



Daniels AFMB Crimping Tool (**AT-DAFM8**)

Daniels Positioner (**AT-DK1978**)

4 Lock the connector body into the Centering Jig **(AT-CJ-DIN)** to assure perfect centering. Insert rear post of body between the cable foil and braid until the Center Pin is flush against the center cable dielectric.

Centering Jig (**AT-CJ-DIN**)

5 Dress braid evenly around rear post. Slide the ferrule over the braid until it rests flush against the connector body. Crimp the ferrule with the appropriate die set for the cable.
AT-DY1855A for **1855A** cable, **.178** ferrule crimp size;
AT-DY1694A for **1694A** cable, **.278** ferrule crimp size;
AT-DY1505A for **1505A** cable, **.255** ferrule crimp size;
using the Daniels Hand Crimp Tool HX4 **(AT-DHX4)**.
Perform light pull test and visually inspect finished assembly.

6 Completed crimp

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