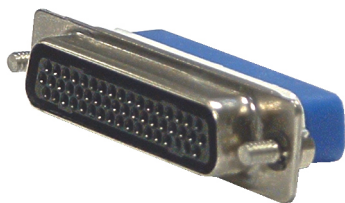


CON/KAD/005/CP

Mating connector (DD, 52-way, rear grommet)

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Key Features

- Mating connector for KAD modules
- Includes connector shell, crimp pins, mating screws and grommet at the rear

Applications

- Connecting modules

Overview

The CON/KAD/005/CP is a 52-way Double-Density (DD) connector for use with all Acra KAM-500 KAD modules (except the KAD/TDC/002).

The part is supplied as a connector shell (with integral insulator), and a bag of 52 crimp pins (size 22 AWG), which may be inserted into the connector shell. A grommet is attached at the rear. The connector is electroless nickel-plated.

The mating screws are stainless steel and are held in place on the connector shell by stainless steel retaining clips.

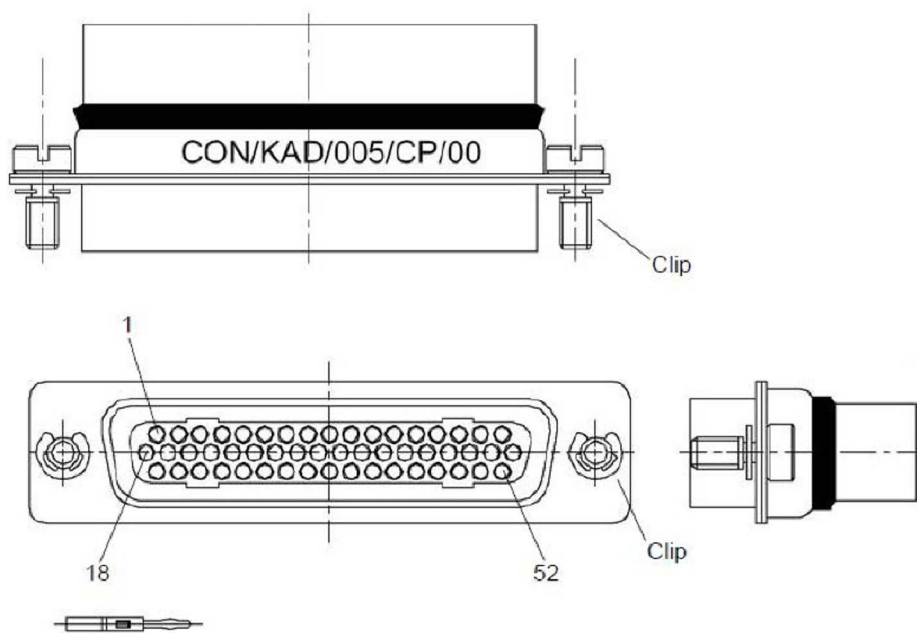


Figure 1: CON/KAD/005/CP plan, elevation and front view

Specifications

TABLE 1		Mechanical specifications				
PARAMETER	MIN.	TYP.	MAX.	UNITS	CONDITION/DETAILS	
Mass						
connector, screw and clip	-	10	-	g		
connector, screw and clip	-	0.35	-	oz	Design metric is grams.	
Dimensions						
connector height	-	19.9	-	mm		
connector height	-	0.78	-	in.	Design metric is millimeters.	
connector length	-	53.4	-	mm		
connector length	-	2.1	-	in.		
connector width	-	12.8	-	mm		
connector width	-	0.5	-	in.		
screw length	-	3.5	-	mm	Length of threaded insert.	
screw length	-	0.1	-	in.	Length of threaded insert.	
width of clip	-	5.0	-	mm		
width of clip	-	0.2	-	in.		
Chassis clearance						
connector height	-	22	-	mm		
connector height	-	0.9	-	in.		
bend radius height	-	52	-	mm	Without ACD/BAC/002 or ACD/BAC/003 attached.	
bend radius height	-	2	-	in.		
Finish						
connector	-	-	-	-	Electroless nickel plated aluminum.	
screw	-	-	-	-	Stainless steel.	
clip	-	-	-	-	Stainless steel.	
integral isolator housing	-	-	-	-	Nylon.	
pins	-	-	-	-	Copper alloy with 1.2µm gold plating. Crimp pins accommodate cable size 22 - 26 AWG.	
pins and retaining clips	-	-	-	-	Stainless steel.	
grommet	-	-	-	-	Fluoro silicon rubber.	

Getting the most from the CON/KAD/005/CP

This 52-way DD mating connector can be used with all Acra KAM-500 double-density modules except the KAD/TDC/002.

The CON/KAD/005/CP is supplied with 52 loose pin contacts. See the *KIT/001* data sheet in the *Acra KAM-500 Databook* for instructions on how to insert these pins.

When mating and un-mating double-density connectors, jackscrews should be screwed/unscrewed by half a turn alternately on each side until the connectors are fully mated/un-mated. Failure to mate/un-mate the connectors in this manner may result in deformation of the module top connector, which can reduce the reliability of the electrical contact of the connector/module with the contact face.

WARNING: It is recommended that pins are only inserted once into each pin location of the connector. A reinsertion of any pin into a location where a pin has been removed may result in a loose pin.

Ordering information

PART NUMBER	DESCRIPTION
CON/KAD/005/CP	Mating connector (DD, 52-way, rear grommet)

Revision history

REVISION	DIFFERENCES	STATUS
CON/KAD/005/CP	First release	Recommended for new programs

Related products

MODULE	DETAILS
ACD/BAC/002/B	Nickel-plated aluminum straight-through backshell for KAD connectors
ACD/BAC/003/B	Nickel-plated aluminum 20° double-density backshell for KAD connectors

Related documentation

DOCUMENT	DETAILS
DOC/DBK/001	Acra KAM-500 Databook
DOC/HBK/002	Environmental Qualifications Handbook
DOC/MAN/018	KSM-500 Databook