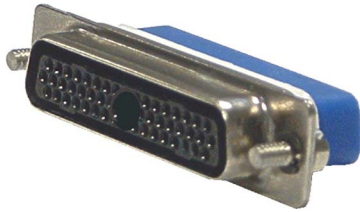


# CON/KAD/005/SR

Mating connector for KAD/TDC/002 (DD, 52-way, rear grommet)

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## Overview

The CON/KAD/005/SR is a modified 52-way Double-Density (DD) connector for use with the KAD/TDC/002.

The part is supplied as a connector shell (with integral insulator), and a bag of 42 crimp pins (size 22 AWG), which may be inserted into the connector shell. A rubber 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.

## Key Features

- Mating connector for the KAD/TDC/002
- Includes connector shell, crimp pins, mating screws and grommet at the rear

## Applications

- Connecting KAD/TDC/002 modules

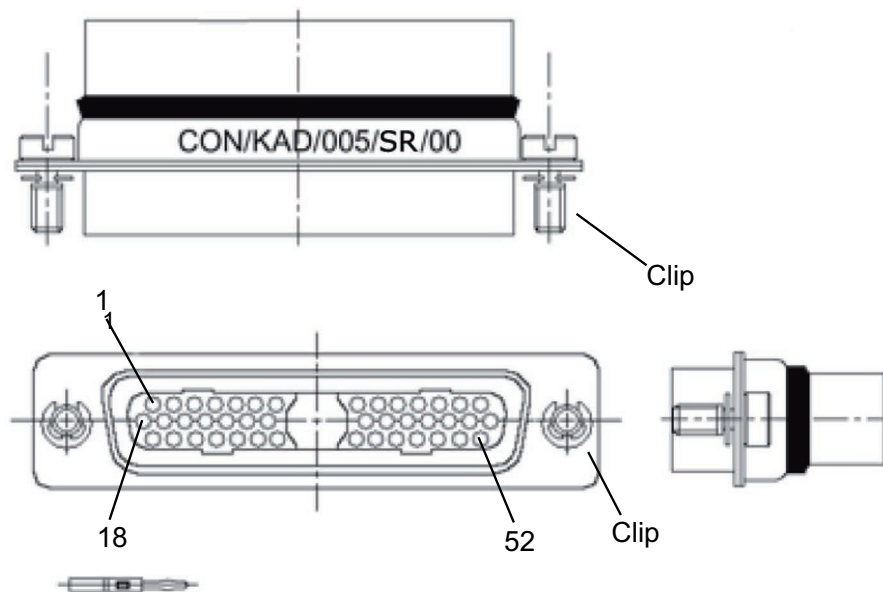


Figure 1: CON/KAD/005/SR plan, elevation and front view

## 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.	
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/SR

This modified 52-way DD mating connector is to be used with the KAD/TDC/002.

The CON/KAD/005/SR is supplied with 42 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.

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**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/SR	Mating connector for KAD/TDC/002 (DD, 52-way, rear grommet)

## Revision history

REVISION	DIFFERENCES	STATUS
CON/KAD/005/SR	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