4-Pin Micro and 5-Pin Mini Cables

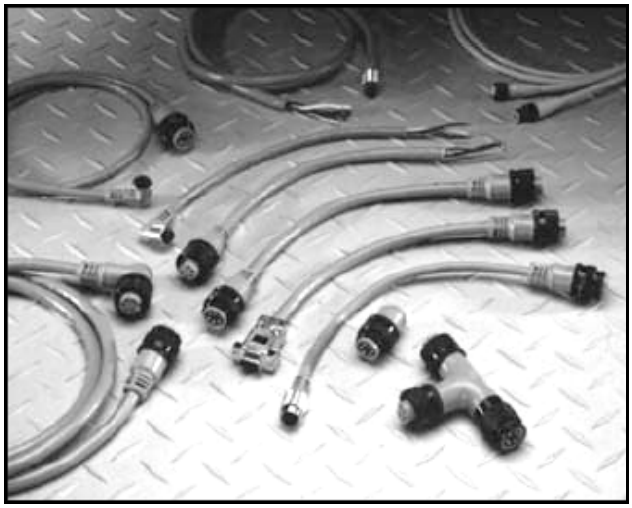
for the Smart Distributed System

TECHNICAL DATA

CBL-8418-1 0204

Description

The 4-pin micro and 5-pin mini style cables are used to construct the trunk and device connections that make up a Smart Distributed System bus system network.



Warranty/Remedy

Seller warrants its products to be free from defects in design, material and workmanship under normal use and service. Seller will repair or replace without charge any such products it finds to be so defective on its return to Seller within 18 months after date of shipment by Seller. **The foregoing is in lieu of all other expressed or implied warranties (except title), including those of merchantability and fitness for a particular purpose.** The foregoing is also purchaser's sole remedy and is in lieu of all other guarantees, obligations, or liabilities or any consequences incidental, or punitive damages attributable to negligence or strict liability, all by way of example.

While Holjeron provides application assistance, personally and through our literature, it is up to the customer to determine the suitability of the product in the application.

All information contained herein, including illustrations, specifications and dimensions, is believed to be reliable as of the date of publication, but is subject to change without notice.

Part Numbers

Cable Type	Description	Part Number
SDS Trunk Cables	Female Mini to Male Mini, 1 Ft	SDS-AAA-001
	Female Mini to Male Mini, 2 Ft	SDS-AAA-002
	Female Mini to Male Mini, 3 Ft	SDS-AAA-003
	Female Mini to Male Mini, 6 Ft	SDS-AAA-006
	Female Mini to Male Mini, 12 Ft	SDS-AAA-012
SDS Branch Cables	Female Mini to Pigtail, 3 Ft	SDS-AAC-003
	Female Micro to Male Mini, 3 Ft	SDS-ABA-003
	Female Micro to Male Mini, 6 Ft	SDS-ABA-006
	Female Micro to Male Mini, 12 Ft	SDS-ABA-012
	Male Mini to Pigtail, 6 Ft	SDS-ACA-006
	Male Mini to Pigtail, 12 Ft	SDS-ACA-012
SDS Tees and Terminators	Passive Tee	SDS-TEE
	Diagnostic Tee	SDS-DIAG
	Termination Cap, Male	SDS-TERM
	Termination Cap, Female	SDS-TERM-F
Other SDS Cables and Connectors	Activator Cable	SDS-ACTA
	Cable for PC Card, DB9 to Male Mini	SDS-AFA-003
	Bulkhead Cable, Female, 6 Ft	SDS-BKHD-006
	Bulkhead Cable, Male, 6 Ft	SDS-BKHD-M-006
	Bulk Cable, 500 Ft Roll	SDS-BLK-500
	Mini Male Field Terminated Connector	SDS-FTCM
	Mini Female Field Terminated Connector	SDS-FTCF

Mini Cable to Mini Cable Installation

1. While aligning the respective keyways, move the connector halves together until the mating faces are as close as possible.
2. Firmly grasp the coupling rings and push the cables towards each other, while rotating them in clockwise directions to engage the threads. A moderate level of force is required to deflect the wave spring inside the coupling ring to engage threads.

CAUTION

Tightening past the green indicator O-ring may damage the connector pair.

3. Continue to hand-tighten the coupling rings until the green indicator O-ring on each connector body is completely visible. Full visibility of both O-rings shows the pair are fully joined and properly connected. Do NOT tighten past the green indicator O-ring. The wave spring in the coupling ring will prevent the connector pair from loosening due to vibration.

Cable to Device Installation

1. Align the keyway of the cable with the device receptacle's keyway, and insert.

CAUTION

Do not use pliers to tighten.

Tightening the connectors past the green indicator O-ring may damage the connector pair. Do not turn the device while holding the coupling ring stationary. Connector could be damaged.

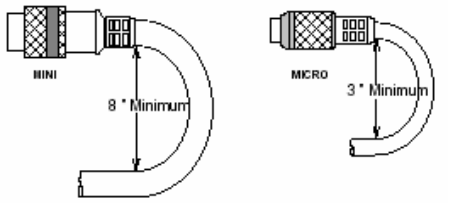
2. Hold the device stationary and push the coupling ring of the connector toward the device receptacle while turning the coupling ring clockwise to engage the threads. A moderate level of force is required to deflect the wave spring in the coupling ring to engage the threads.
3. Continue to hand-tighten the coupling ring until the green indicator O-ring on the connector body is fully visible. Full visibility of the O-ring shows the pair are fully joined and properly connected. The wave spring in the coupling ring prevents loosening under vibration.

Cable Strain

CAUTION

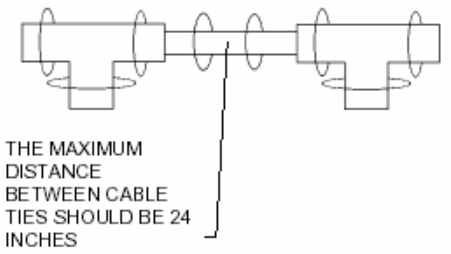
To prevent damage to the connector, the bend diameter of a mini style cable should not be less than 8 inches. The bend diameter of a micro style cable should not be less than 3 inches (see figure 1). Hanging devices off the cable network without proper support may damage the connector bodies.

FIGURE 1 - Minimum Bend Diameters for Mini and Micro Style Cables



- Eliminate strain on the connector body, especially strain caused by side forces applied to the connector.
- Ensure the cable assemblies are properly supported.
- Use tie wraps or an equivalent to support cable every 1 to 2 feet (24 inch maximum, see figure 2) along the network and at each tee.
- When attaching devices to the bus network, ensure the devices are properly supported and mounted to help reduce stress on the connector assemblies.

FIGURE 2 - Maximum Distance Between Cable Ties



Wiring Code

See figure 3 and table 1 for connector pin and socket designations, cable wire termination and color code information. This information applies to the installation of bulk cable, bulkheads, and pigtailed cable.

FIGURE 3 - Mini-Style and Micro-Style Pin and Socket Designations

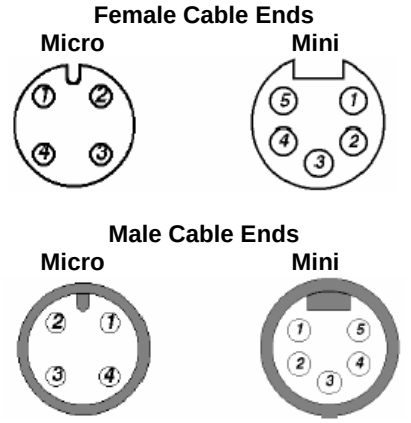


TABLE 1 - Bus Cable Wire Termination and Color Code

Mini	Micro	Color	Function
1	---		Shield
2	1	Brown	Bus Power +
3	2	Blue	Bus Power -
4	4	Black	Bus Comm +
5	3	White	Bus Comm -