

3M™ Power Clamp Wiremount Socket

3 mm, IDC, 5 Position

355 Series



- Easy, labor saving, and reliable IDC termination
- Easy field termination with no special tooling or wire preparation – no stripping or tinning
- Semi-Transparent color-coded covers for wire inspection and wire retention
- CC-Link Communication Interconnect Standard
- One-Touch latching mechanism maintains a reliable interconnection in demanding field applications and requires only one hand to easily mate and unmate
- Polarization ensures proper interconnecting of mated pairs
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply).

Date Modified: December 20, 2009

TS-2273-C
Sheet 1 of 2

Physical

Insulation:

Body Material: Nylon

Cover Material: Polycarbonate

Flammability: UL 94V-0

Body Color: Black

Cover Color: Clear, Yellow, Blue, Red

Contact:

Material: Copper Alloy

Plating:

Underplating: 2.5 µm Ni minimum

Wiping Area: 0.5 µm Au minimum

IDC Termination Area: 2.5 µm Ni minimum

Wire Accommodation: 18 & 20 AWG: PVC, TFE, Foamed PE insulation with solid or 7 - 19 stranded Tinned or Silver Cu.

MIL-W- 16878/5 EE, MIL-W- 16878/4 E, MIL-W- 16878/1, MIL-W- 16878/2 C

CC-Link Ver 1.10 Cables

Contact 3M for additional wire accommodations

Mating Compatibility: 356, 357, 358 Series (with same polarizations)

Electrical

Current Rating: 18 AWG: 10A (1 contact); 7A (2 - 5 contacts)

20 AWG: 9A (1 contact); 6A (2 - 5 contacts)

Rating Conditions: 30° C maximum temperature rise

Voltage Rating: 250 V

Insulation Resistance: 10³ MΩ min. at 600 V_{DC}

Withstanding Voltage: 1,000 V_{RMS} for 1 minute

Environmental

Temperature Rating: -20°C to +75°C ambient

UL Rating: 65°C

UL File No.: E68080



Electronic Solutions Division
Interconnect Solutions

<http://www.3M.com/interconnects/>

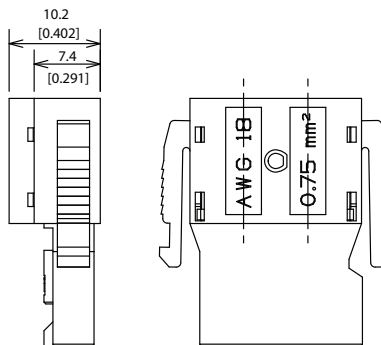
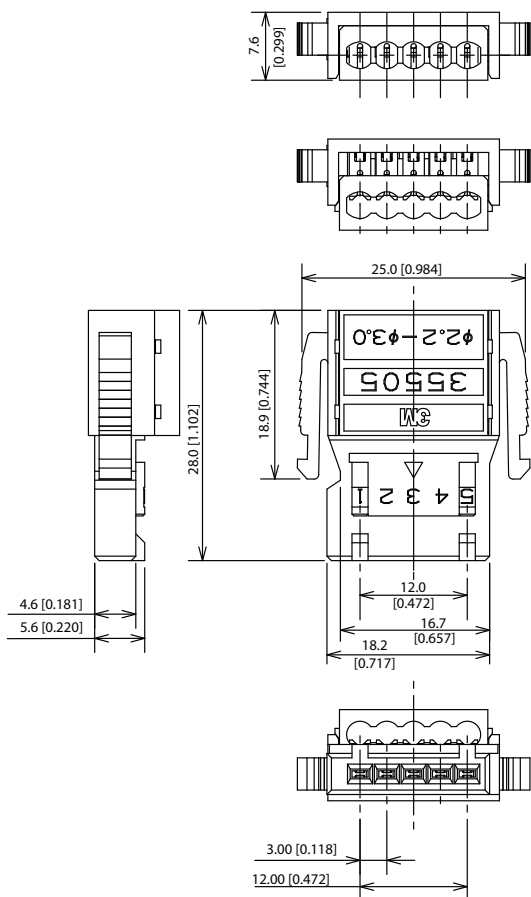
3M is a trademark of 3M Company.
For technical, sales or ordering information call

800-225-5373

3M™ Power Clamp Wiremount Socket

3 mm, IDC, 5 Position

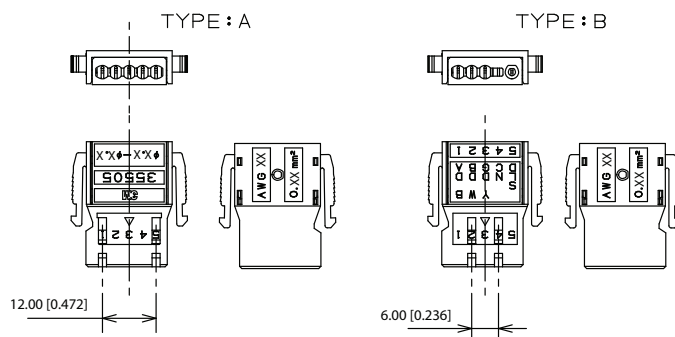
355 Series



Available Part Numbers			
3M Part Number	Outside Diameter Range of Wire	Wire Gauge	Cover Color
35505-6080-A00 GF	2.2 - 3.0 mm [.087 - .118"]	18 AWG	Clear
35505-6180-A00 GF	2.0 - 2.3 mm [.079 - .091"]	18 AWG	Blue
35505-6200-A00 GF	1.6 - 2.0 mm [.063 - .079"]	20 AWG	Yellow
35505-6000-B0M GF*	2.2 - 3.0 mm [.087 - .118"]	20 AWG	Red

*35505-6000-B0M GF connects communication cable with 3 discrete and 1 drain wire. Twist drain wire 7 or more times to tighten strands and insert into wire position #5.

Polarization



mm
[Inch]

Tolerance Unless Noted			
	0	.0	.00
mm	±1	±.3	±.13

[] Dimensions for Reference Only

Metal Clip Accessory 79116-PCM-01M available for additional latching security in high demand applications.

Ordering Information

35505 - 6XX0 - X0X GF (RIA E1 and C1 Apply)

Wire Outside Diameter:

0: 2.2 - 3.0 mm

1: 2.0 - 2.3 mm

2: 1.6 - 2.0 mm

Wire Size:

0: 20 AWG

8: 18 AWG

Polarization:

A: Type A (wide)

B: Type B (narrow)

Option:

0: 3M Original

M: Drain Wire

Metal Clip Accessory: 79116-PCM-01M

TS-2273-C
Sheet 2 of 2



Electronic Solutions Division
Interconnect Solutions

<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

**3M Electronics Solutions Division**

6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3m.com/interconnects

Please recycle. Printed in USA.
© 3M 2008. All rights reserved.
RIA-2217B-E

3M is a trademark of 3M Company.