

3M™ Mini-Clamp, Link and Power Clamp Connectors

Time-saving, reliable and field-installable wiring solutions

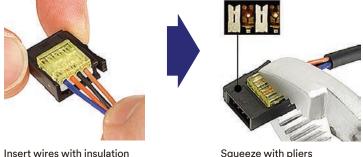


3M™ Mini-Clamp Connectors

The 3M Mini-Clamp is a simple termination connector based on industry standards for industrial, sensor, LED, switch and various small device connections. Featuring Insulation Displacement Contact (IDC) technology, this connector can provide a time-saving, reliable and field-installable wiring solution.

Simple termination process for fast, reliable installation and maintenance

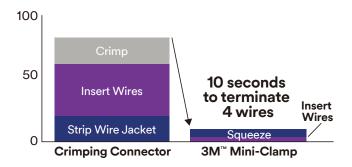
- Helps minimize risk of conductor damage with no wire stripping
- Stable termination quality with IDC increases reliability of sensor wiring
- Supports wires 28 to 20AWG



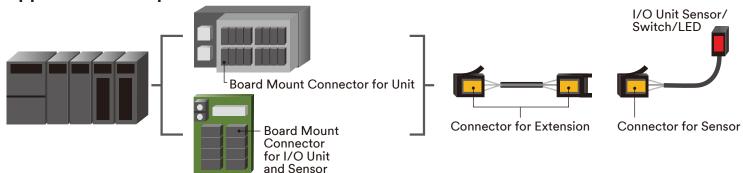
Squeeze with pliers

Optimize network layout with field-installability

- Easily connect to pig-tail wired sensors
- Field termination allows for optimal cable lengths to save space and wire efficiently



Application Example



Product Portfolio Offering

(Table includes wiremount connectors only, Ask 3M for availability of boardmount and other options.)

3M™ Mini-Clamp Connectors

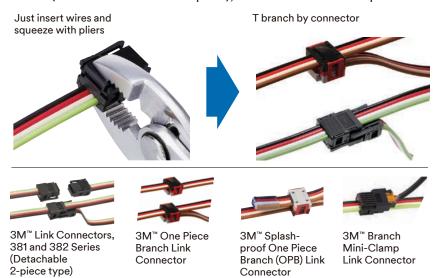
Size of Conductor	Wire Jacketing Outside Diameter	3M Wiremount Plug y:# of positions (3,4,6,8)	3M Wiremount Socket x:0=Standard, P=Panel Mount y:# of positions (3,4,6,8)	3M Common Socket Connector x:0=Standard, P=Panel Mount	Course	Related Accessories	
					Cover Color	3M™ Water- Resistant Boot 37800-P000	
AWG28-26 (0.08 - 0.14 mm²)	Ø0.6 - 0.8 mm	3710y-4080-G00 FL	_	_	Purple	Dust Covers	
	Ø0.8 - 1.0 mm	3710y-4101-G00 FL	_	_	Red	37803-1000-00	
AWG26-24 (0.14 - 0.3 mm²)	Ø0.6 - 0.8 mm	3710y-3080-000 FL	_	_	Purple	37804-1000-00	
	Ø0.8 - 1.0 mm	3710y-3101-000 FL	3730y-3101-0×0 FL	37C04-3101-0×0 FL	Red	Crimping Tool	
	Ø1.0 - 1.2 mm	3710y-3122-000 FL	3730y-3122-0×0 FL	37C04-3122-0×0 FL	Yellow	37900-10	
	Ø1.2 - 1.6 mm	3710y-3163-000 FL	3730y-3163-0×0 FL	37C04-3163-0×0 FL	Orange	<i>A</i> .	
AWG22-20 (0.3 - 0.5 mm²)	Ø1.0 - 1.2 mm	3710y-2124-000 FL	3730y-2124-0×0 FL	37C04-2124-0×0 FL	Green		
	Ø1.2 - 1.6 mm	3710y-2165-000 FL	3730y-2165-0×0 FL	37C04-2165-0×0 FL	Blue		
	Ø1.6 - 2.0mm	3710y-2206-000 FL	3730y-2206-0×0 FL	37C04-2206-0×0 FL	Grey		

3M™ Link Connectors

3M™ Link Connectors offer a simple, single-action IDC termination for T-branching and splicing of sensor and field networks. Available in standard detachable, One Piece (with and without IPX4 option), and Branch Mini-Clamp versions.

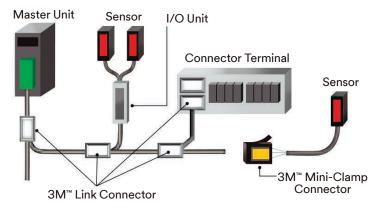
Enables branched networks and splicing into an existing network

- Provides networking efficiency by optimizing signal and power line routing to terminal
- Allows installation of additional small devices without adding signal and power lines from controller
- Supports wires 22 to 16AWG

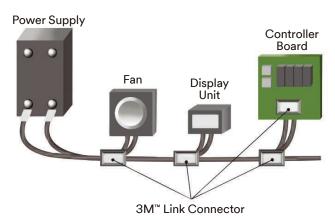


Application Example

Serial Sensor Network



Power Distribution

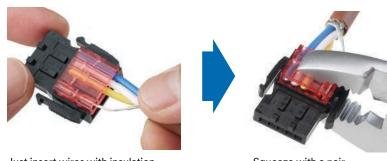


3M™ Power Clamp Connectors

3M™ Power Clamp Connector is a quick-termination connector for field networking applications and protocols. The simple IDC installation process allows for labor savings and high connection reliability. It is compatible with CLPA's CC-Link open technology.

Splicing adapter with fast, reliable installation

- Smaller connector size than most standard screw-type alternatives
- Supports 250 Volts, 10A max (1 line), 7A max (all lines)
- Supports 20 to 18AWG wire
- Compatible with CC-Link
 Communication Interconnect Standard



Just insert wires with insulation

Squeeze with a pair of standard pliers

Application Example



Product Portfolio Offering

(Table includes wiremount connectors only. Ask 3M for availability of boardmount and other options.)

3M™ Link Connectors

			Detachable	Branch Mini-Clamp Type	
Size of Conductor	Cable Style	Wire Jacketing Outside Diameter	2 position	4 position	
22AWG (0.3 mm²)	Round	Ø1.1 - 1.4 mm	38102-W022-W00 FL	38104-H022-K00 FL	_
	Round	Ø1.8 - 2.1 mm	38102-F020-H00 FL	38104-F020-H00 FL	_
20AWG (0.5 mm ²)	Round	Ø2.1 - 2.4 mm	_	38104-E020-G00 FL	_
	Flat	Ø2.54 mm	_	38104-0020-100 FL	38A04-0020-100 FL
	Round	Ø1.8 - 2.1 mm	_	38104-F018-F00 FL	_
18AWG (0.75 mm²)	Round	Ø2.1 - 2.4 mm	_	38104-E018-E00 FL	_
	Flat	Ø2.54 mm	38102-0018-000 FL	38104-0018-000 FL	38A04-0018-000 FL
16AWG (1.25 mm²)	Flat	Ø2.54 mm	38102-0016-200 FL	_	38A04-0016-200 FL

One Piece Branch (OPB) Type					
Main Line Cable	Branch Line Cable	Standard	Splash-proof (IPX4)	3M [™] 4-wire Cable, 18AWG/0.75 mm ² 79100-075-4F1 3M [™] OPB Splash-proof Cable Cap 38700-C01	
18AWG (0.75 mm ²)	18AWG (0.75 mm²)/Flat	38704-FF880	38704-FF880-PA-C	3M™ IDC Termination Tool for OPB	
20-16AWG (0.5-1.25 mm²)/Flat	20-16AWG (0.5-1.25 mm²)/Flat Thinner gauges/Discrete	Custom option	Custom option	38900-10	

Note 1: Don't mate to PCB connector. **Note 2:** Ask 3M for splice type. **Note 3:** Splash-proof end cap is available for sale. Need to use IDC Termination Tool 38900-10 for Splash-proof type.

3M™ Power Clamp Connectors

			Wiremount Socket	Wiremount Plug x: 0=Standard, P=Panel Mount	Related Products	
# Positions	Size of Conductor	Wire Jacketing Outside Diameter			Termination Resistor 35T05-6M00-B0M GF Branch Connector: Type H: 35720-L200-A00 AK Type Y: 35715-L010-A00 AK	
5	20AWG (0.5 mm ²)	Ø1.6 - 2.0 mm	35505-6200-A00 GF	35805-6200-A×0 GF		
	18AWG (0.75 mm²)	Ø1.6 - 2.0 mm	35505-6080-A00 GF	35805-6080-A×0 GF		
		Ø2.0 - 2.3 mm	35505-6180-A00 GF	35805-6180-A×0 GF		
	Bar Terminal Diameter	Ø1.05 - 1.15 mm	35A05-60S0-A00 GF	35805-60S0-A×0 GF	The state of the s	
4 (CC-Link)	20AWG (0.5 mm ²)	Ø2.2 - 3.0 mm	35505-6000-B0M GF	35805-6000-B×M GF		
	Bar Terminal Diameter	Ø1.05 - 1.15 mm	35A05-60S0-B0M GF	35805-60S0-B×M GF		

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.



3M is a trademark of 3M Company. Used under license.