

Communication Markets Division

3M™ Quick Connect System (QCS) 2811

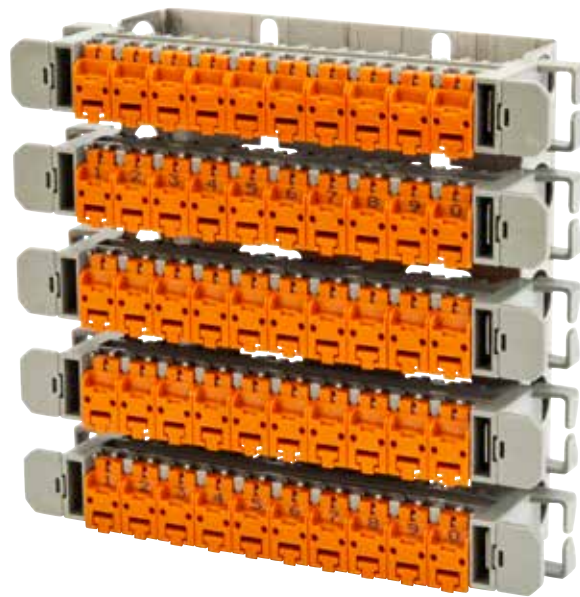
Designed for your broadband network

The 3M™ Quick Connect System (QCS) 2811 is an insulation displacement connector (IDC) termination system from 3M.

The QCS 2811 system is a simple-to-use, tool-less copper block; an ideal solution for both indoor and outdoor applications.

New demands in an age of information

Every day, local loop providers work to provide enhanced customer services such as data access with faster Internet transmission, video-on-demand and video conferencing. Many providers are deploying ADSL2+ & VDSL2 over twisted pair copper cable to meet these demands. As new technologies migrate into the local loop, the importance of connections in the embedded plant increases. 3M provides connectors you can trust.



Features	Benefits
Tool-less jumpering	Simple termination practices help increase technician productivity
Visibility to jumpers	Ability to inspect jumper termination allows validation of connection, minimizing rework
Pair-at-once termination	Increases craft productivity
Low termination force	Craft-friendly, tool-less design
Termination cap	Protection from dust and other environmental contaminants

Visual confirmation without signal loss

Contact integrity is critical, not only at the time of installation but over the life of the connector. The QCS 2811 system can be re-opened without breaking the circuit for visual validation of the IDC connection.

As you like it

The 3M™ Quick Connect System (QCS) 2811 is available in many configurations to meet your application. The QCS 2811 system is modular in design. Termination blocks are available for pre-terminated applications in a 50-pair block or field-terminated applications in a 10-pair strip. In field-terminated applications, the block fits on standard frames and is capable of terminating cable-side either with thumb actuation or with a convenient punch-down tool for increased productivity.

Field cable termination options

The 3M™ Quick Connect System (QCS) 2811A: A 10-pair strip utilizing an IDC punch down tool to insert the cable wire into the back-side IDC element and trim the wire in one motion. This tool increases craft productivity in the installation of a terminal, allowing the technician to prepare all ten cable pair that go to a given block and then to follow along with the tool and insert each wire in short order. Once the block is cabled and placed on the frame, the jumpering is completely tool-less.

The 3M™ Quick Connect System (QCS) 2811B: A 10-pair strip with completely tool-less termination. In this strip, the ergonomic jumper caps are located on the cable side as well as the jumper side allowing for tool-free termination of the cables and tool-less jumpering. All terminations are pair-at-a-time.

Pre-terminated option

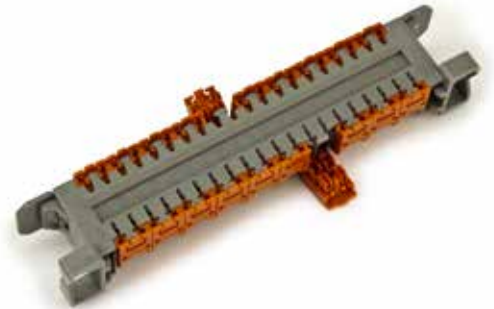
The pre-terminated configuration of the QCS 2811 system is available in 50-pair increments. The blocks come terminated with twisted-pair tails to 3M™ 710 or 3M™ MS2™ Splicing Modules.

Applications

The Quick Connect System (QCS) 2811 can be used throughout the network as the common interconnectivity and termination platform. The QCS 2811 system provides a high-speed demarcation connection field versus traditional punch-on blocks. Designed specifically for rugged use and robust performance in the outside plant, the QCS 2811 system is ideal for use in Building Entrance Terminals (BET/PET), pole or wall-mount cable terminals, distribution pedestals, strand or drop wire terminals.



3M™ Quick Connect System (QCS) 2811A



3M™ Quick Connect System (QCS) 2811B



3M™ Quick Connect System (QCS) 2811 (pre-terminated)

3M™ Quick Connect System 2810

Mechanical Specifications			
Dimensions:	Height	Width	Depth*
10-pair strip (not on frame)	20 mm / 0.79 in.	135 mm / 5.31 in.	26 mm / 1.02 in.
50-pair block (on frame, 25 mm pitch)	125 mm / 4.9 in.	135 mm / 5.31 in.	47 mm / 1.85 in.
50-pair block (on frame, 22.5 mm pitch) * Depth-on-frame can vary depending on pair count	112.5 mm / 4.4 in.	135 mm / 5.31 in.	47 mm / 1.85 in.
Wire range IDC contacts – solid copper conductor	0.4 mm to 0.6 mm	26 AWG to 22 AWG	
Wire re-terminations:	250 re-terminations of 24 AWG per Telcordia TR-NWT-001195		
Electrical:			
Insulation resistance:	>1×10 ¹⁰ Ω		
Contact resistance:	< 10 mΩ		
Dielectric strength:	3000 V rms, 60 Hz AC		
High voltage surge:	3000 V DC Surge		
Environmental			
Telcordia TR-NWT-001195	Generic Requirements for Insulation Displacement Connector (IDC) Cross-Connect Terminal Blocks		
Operating temperature range	-20°C to 60°C		
Storage temperature range	-40°C to 90°C		
RoHS: Compliant with EU RoHS Directive (2011/65/EU)			
Materials:			
Plastics:	Thermoplastic		
Contacts:	Bronze, Tin (Sn) plating		

Ordering Information

Product Number	Product Description	3M ID	Min. Order
BLOCKS			
2811AD-O	Type A cross connect terminal block, gel-filled, 10-pair block – orange	XS-0038-7338-6	200
2811BD-O	Type B cross connect terminal block, gel-filled, 10-pair block – orange	XS-0038-7339-4	200
2811BD-O-10PAIR	Type B 10-pair cross connect terminal block kit	80-6113-8896-6	1
BLOCKS AND FRAME KITS			
2811DF100-M21A	QCS 2811 pre-terminated short harness to RJ21 connector, 100 pair with frame	80-6113-3898-1	1
2811DF50-M21A	QCS 2811 pre-terminated short harness to RJ21 connector, 50 pair with frame	80-6113-3896-5	1
2811F100-100-30P	QCS 2811B, dry, 100 pair with frame, 30 mm pitch	80-6114-8015-5	1
WALL MOUNT FRAMES			
2810F100-25P	QCS frame only, 25 mm pitch, 100 pair	80-6113-3164-8	1
2810F100-22P	QCS frame only, 22.5 mm pitch, 100 pair	80-6113-3166-3	1
2810F30-25P	QCS frame only, 25 mm pitch, 30 pair	80-6113-8949-7	1

Ordering Information (cont'd)

Product Number	Product Description	3M ID	Min. Order
2810F50-22P	QCS frame only, 22.5 mm pitch, 50 pair	80-6113-3165-5	1
2810F50-25P	QCS frame only, 25 mm pitch, 50 pair	80-6113-3163-0	1
2810FT100-25P	QCS frame only (tall), 25 mm pitch, 100 pair	80-6113-8899-4	1
2810FT50-25P	QCS frame only (tall), 25 mm pitch, 50 pair	80-6113-8947-1	1
2811F100-30P	QCS frame only, 30 mm pitch, 100 pair	80-6114-8013-0	1
2811F100MB	Wall-mount mounting brackets, forward extension	80-6114-8014-8	1
ACCESSORIES			
2810-L	Label holder	XS-0038-7405-3	100
2810L-J	Jumpering label (placed inside cabinet door)	80-6113-3514-4	10
2810L-P	Label holder – purple	XS-0038-8598-4	100
2810LT-BLGR1-1800	Tagging labels, blue/green, 1-1800	80-6113-8034-8	5
2810LT-BLGR1801-3600	Tagging labels, blue/green, 1801-3600	80-6113-8035-5	5
2810LT-BLGR3601-6000	Tagging labels, blue/green, 3601-6000	80-6113-8036-3	5
2810LT-PU1-1800	Tagging labels, purple, 1-1800	80-6114-8480-1	5
2810LT-PU1801-3600	Tagging labels, purple, 1801-3600	80-6114-8481-9	5
2810LT-PU5401-7200	Tagging labels, purple, 5401-7200	80-6114-8483-5	5
2810LT-YL1-1800	Tagging labels, yellow, 1-1800	80-6114-8060-1	5
2810LT-YL1-5401-7200	Tagging labels, yellow, 5401-7200	80-6114-8063-5	5
2810LT-YL1801-3600	Tagging labels, yellow, 1801-3600	80-6114-8061-9	5
2810LT-YL3601-5400	Tagging labels, yellow, 3601-5400	80-6114-8062-7	5
2810PC-P	Priority cap – purple	XS-0038-8516-6	100
2810PC-R	Priority cap – red	XS-0038-7407-9	100
2810PC-Y	Priority cap – yellow	XS-0038-0280-7	100
2810RC-0	Replacement cap – orange	XS-0038-7406-1	100
2810RC-P	Replacement cap – purple	XS-0038-8599-2	100
2810HT	Termination hand tool IDC – small	XS-0038-3869-4	10
234058CA	SOR OC PKSI-S IDC Termination Tool	FQ-1000-3053-2	10
C234056A	SOR OC SI-S IDC Insertion Hand Tool	FQ-1000-2978-1	10

“RoHS 2011/65/EU” means that the product or part does not contain any of the substances in excess of the maximum concentration values (“MCVs”) in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M’s knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

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