



## Communication Markets Division 25-year Cabling System Warranty, Training and Qualification Process

### *Warranty Summary*

3M warrants that the passive products that comprise the registered cabling system will, under normal and proper use, conform to 3M's advertised and published specifications at the date of purchase and transport data in accordance with the appropriate link specifications for industry standards in effect at the time of installation for a period of twenty-five (25) years as follows:

- Copper systems are warranted to meet the Class D/Category 5E, Class E/Category 6, Class E<sub>A</sub>/Category 6A performance requirements as defined by EIA/TIA, ISO/IEC or CENELEC.
- Fiber cabling systems are warranted to meet the link specifications in industry standards at the time of installation, depending on the type of fiber cable installed (OM2, OM3, OM4, OS1, OS2) as defined by EIA/TIA, ISO/IEC or CENELEC.

See Annex 2 on page 6 of this document for a complete list of warranted products.

The system warranty is extended by 3M to the end user when 3M Products are properly installed, tested and registered by a Qualified Integration Professional (QIP) or Qualified Installer (QI). Note, a Qualified Installer Agreement may be needed in cases where the end user requires an installer other than an authorized QIP. The QIP or QI has responsibility for proper installation of the system to the guidelines in the 3M's approved "*Design, Planning and Installation Manual(s)*" and/or "*Product Installation Instructions.*"

The warranty covers the end-to-end permanent link as defined in the generic cabling standards (from panel to panel or panel to outlet) and the channel configuration (includes permanent link products plus any equipment cord(s) and/or optical splitter products used in the channel configuration) provided that these added products are manufactured and furnished by 3M.

The QIP (or QI) has responsibility for the installation and final testing. Changes to the system are covered by the warranty, provided the changes are made and tested to current link and channel specifications and warranty requirements at the time of the change by the certified installer.

If, during the warranty period, the installation does not perform to specifications, and the system user has investigated and ruled out all potential causes of the application failure attributable to causes other than the warranted cabling system, the end user will notify 3M or the QIP or QI for action. For any nonconforming 3M product component found in the cabling system, 3M will, at its discretion, either repair or replace the nonconforming product or refund the purchase price. 3M shall not be responsible for the costs incurred to remove and replace any nonconforming product. Any replacement shall be warranted, commencing with the date upon which replaced product is returned, for the remainder of the unexpired period of the warranty.

A precise description of the warranty coverage and conditions is given on the warranty certificate.

#### *Warranty deviation*

Changes to the procedure as outlined above will be necessary if a product that has not been supplied by 3M and has not been approved by 3M is used in the installation. In such a case, a special application must be made to 3M prior to the installation taking place.

3M Technical Service will review the product substitution(s) to determine if channel performance is likely to be compromised. Subject to technical approval, the final decision on whether to grant a warranty will be made by the appropriate 3M business manager at his or her sole discretion.

#### *Warranty Certificates*

Certificates are issued by local or international 3M Technical Service only.

Final technical approval belongs to local or international 3M Technical Service.

#### *Warranty Application Procedure*

The following must be supplied by the QIP or QI within 60 days of acceptance by the system owner on the form in annex 1:

1. Name and address where system installed
2. Name, address, certification number of QIP/QI
3. Name, certificate number of tester
4. Test equipment model and calibration verification
5. Bill of materials
6. Number of outlets installed
7. Schematic of installation
8. Test report
9. Confirmation of acceptance by owner

The warranty application flow chart gives the process (Fig 1). The test report should be in electronic format where possible. Full details of the installation, such as schematics, must be provided so that 3M will be able to check a claim against the condition and extent of the installation at the time of warranty issue. 3M Technical Service may choose to inspect the system, prior to issuing a warranty certificate, depending on the size of the installation and previous experience of the installer.

### *QI and QIP Certification*

An installer must be a QI or QIP to apply for a 3M 25-year Cabling System Warranty. When the agreement is reached with a QI or QIP they will be given a certificate with a registration number. This number must be part of the warranty application. For an installer to become a QI or QIP, please refer to local Sales Manager or 3M Communication Markets Division Technical Service at 1-800-426-8688 for documentation and inquiries for certification training.

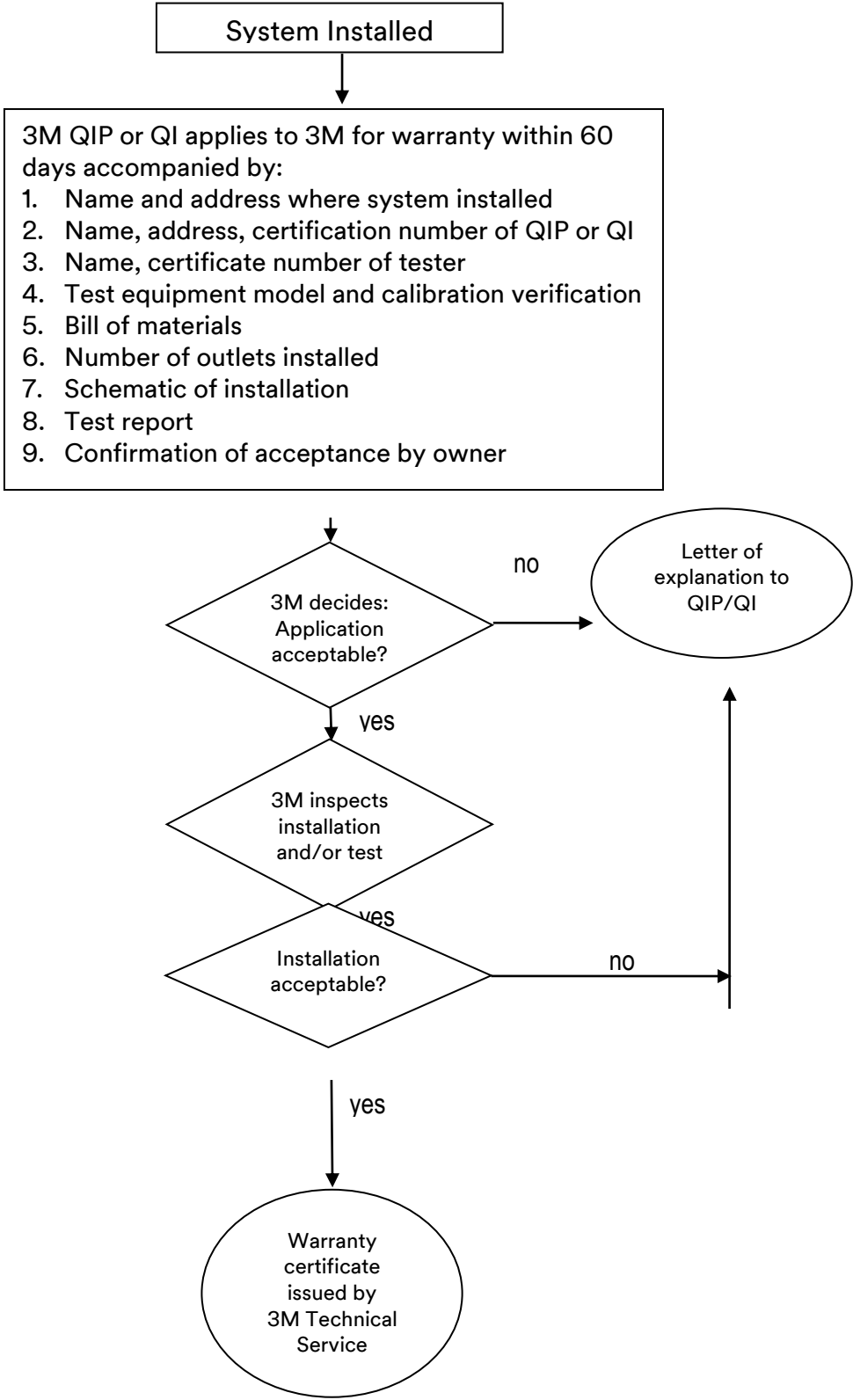
### *Training Certificates*

The person who tested or signed off on the installation must hold a current training certificate from 3M signifying they have attended an approved training course. Training is the responsibility of local or international 3M Technical Service or an approved training house who will issue a numbered certificate. This certificate number must be part of the warranty application.

### *Records*

Records of training and warranty certificates are held by local or international 3M Technical Service. QIP/QI records are held by the local 3M business group.

Warranty application procedure (Fig. 1)



Annex 1



Site Registration / Warranty Application Form

1	Registration number:	
2	Installation company name & address: Contact name:	
3	Project name:	
4	Project site address:	
5	Site contact:	
6	Telephone No.:	
7	Fax No.:	
8	E-mail address:	
9	Standard Category of Copper	
10	Type of project:	
11	Project start date:	
12	Project completion date:	
13	Number of outlets:	
14	Fiber cable type: OS1or2; OM1,2,3or4	
15	Fiber connector type: ex: SC, LC, ST	
16	No. of fiber terminations:	
17	Are site drawings available:	Yes/No
19	Proposed site evaluation or test date for audited installation:	
20	<i>Additional site details e.g. No. of floors/comms room:</i>	
21	Type of outlet containment to be used:	
22	Active product installed/being installed:	Yes/No
23	Other comments:	
3M use:		

**A Copy of the Test Equipment Calibration Certificate, Test Results & Test Results Reader Software, Site Schematic, Cabinet Layouts, Floor Plan Drawings, Bill of Materials and a Client Project Acceptance Notice must be supplied with this form.**

## Annex 2 Warranted 3M Product List

Copper Cabling System	
K series jacks	VOL-OCK5E, 6, or 6A series, RJ45 modular jacks
Panels	1RU or 2RU 19 inch panels, for RJ45 modular jacks
Outlets	Single gang faceplates, 2-port or 4-port, for RJ45 modular jacks
Patch cords	Cat. 6 copper patch cords, various lengths
Cable	VOL-5E, 6, 6A U/UTP, F/UTP, S/FTP
Fiber Cabling System	
Crimplok+	SC/APC or SC/UPC assembled on singlemode (900 $\mu$ m or 250 $\mu$ m)
NPC 250/900	LC, SC; APC or PC assembled on singlemode fiber (900 $\mu$ m or 250 $\mu$ m)
NPC for Jacketed	SC and LC assembled on singlemode fiber (1.6 – 3.0 mm jacketed)
Fibrlok II	2529, 2540G, Fibrlok holder; assembled on singlemode fiber (900 $\mu$ m or 250 $\mu$ m)
Couplings	LC, SC PC or APC duplex or simplex; singlemode or multimode
Pre-terminated fiber cables	1 or 2 fiber terminated on one end or both, various lengths in Plenum and Riser Jackets singlemode
Pigtails	LC, SC, SC/APC tight and semi tight buffer; singlemode
Multi-fiber trunk cable assemblies	8 or 12 fiber pre-terminated MPO to SC/APC or MPO to MPO trunk cable assemblies
Modular optical splitters or MPO fanouts	1x32, 2x32, 1x16, 2x16, 1x8, 2x8, 1x4s – optical splitter modules 8-fiber MPO fanout, 12-fiber MPO fan-out modules
Panels	Modular mounting panels, 19 inch, 3RU Adapter plates Patch cord management panel, 19 inch, 1RU
Rack-mount enclosures	8420 Series FDUs
Wall boxes	8430 Series FDUs POLS optimized wall-box
Outlets	ILU Surface-mount Outlet 86x86 outlet 2 SC and 1 RJ45 Single gang convex faceplates dual SC or quad SC
Fiber Cable	
900 $\mu$ m cable	Singlemode (1,2 & 6 fiber) Premise distribution cable Plenum or Riser (A2.B2 or B3 BIF)
250 $\mu$ m cable	Singlemode Backbone (6, 12 & 24 fiber) Riser and Plenum & armored