

W16 HOME NETWORK

Awaiting information from the Client and/or managing agent.

- W16.001 Scope
- W16.006 Install voice and data cabling within each apartment, to provide connectivity, between the building's telecoms infrastructure and each telephone and data outlet shown on the drawings.
- W16.007 Allow for all coordination with and attendance upon the Telecoms providers.
- W16.100 Comply with the following:
- W16.101 BT Openreach Developer Guides
- W16.102 BS 6701 Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance.
- W16.103 BS 7671 IET Wiring Regulations
- W16.104 EN 50173-1 Information Technology, Generic Cabling Systems, 2011
- W16.105 BS EN 50174-1:2009+A1:2011 Information technology. Cabling installation. Installation specification and quality assurance
- W16.106 IEEE 802.3ab Physical layer specification for 1000 Mb/s operation on four pairs of Category 5 or better balanced twisted pair cable (1000BaseT), July 1999
- W16.107 ISO/IEC 11801 Information Technology - Generic Cabling for Customer Premises, 2nd edition.
- W16.108 IEC 60332-1 Flammability of a single vertical cable
- W16.109 IEC 60332-3C Flammability of a bunch of vertical cables
- W16.110 IEC 60603-7-4 Detail specification for connectors, 8 way. Test methods and related requirements for use at frequencies up to 200 MHz.
- W16.111 IEC 61935 Generic specification for testing of generic cabling in accordance with ISO/IEC11801, Part 1
- W16.112 TIA/EIA 568-B Commercial Building Telecommunications Cabling Standard, 2001 Addendum B2-1.
- W16.200 General Clauses
- W16.201 Data Outlets must be Cat 5e
- W16.202 Telephone outlets must be BS6312 431A
- W16.203 The cabling system must be procured from one manufacturer.
- W16.204 The cabling system must be installed according to the manufacturer's instructions.
- W16.205 Planning, quality control, documentation and earthing/bonding must be according to EN 50174 parts 1 and 2. External cables must be installed according to EN50174 part 3, latest draft.
- W16.206 100% of the installed cables must be tested.
- W16.207 The Permanent Link must be tested to IEC 61935 with a Level III cable tester set to Class D Permanent Link referencing the Permanent Link performance standards detailed in ISO 11801 Class D second edition.
- W16.208 Cabling must be tested in both directions and the results stored in an electronic database compatible with the tester manufacturer's cable management programme.
- W16.209 Label each cable at both ends.
- W16.210 The cabling system must be earthed according to the manufacturer's instructions and EN50303, EN50174-2 or TIA/EIA-607.
- W16.211 The structured cabling system shall comply with cable balance and EMC requirements of EN 50288 and ISO 11801 2nd edition and will not degrade the EMC performance of any electrical device connected to it. This facility shall be guaranteed by the manufacturer.
- W16.212 Voice extension cabling shall run direct from the ONT voice port. Connection to the ONT is made via a BS6312 431A Plug inserted into voice port 1.

- W16.213 A minimum of 50mm between telephone cables and power cables shall be left throughout.
- W16.214 Cable
- W16.215 The cable must be four-pair Category 5 with a low-flammability sheath.
- W16.216 The cable must meet EN 50288
- W16.217 The flammability performance must meet IEC 60332-1 as a minimum.
- W16.300 Specific Clauses
- W16.301 Install data and telephone outlets where shown on architectural drawings.
- W16.302 Provide additional data and telephone points to Landlord's equipment and services, as detailed elsewhere in this specification and shown on the drawings.
- W16.800 Completion
- W16.801 Test and commission the system to BS EN 50174.