



**COMPLIANCE TESTING REPORT FOR  
AUSTRALIAN STANDARD AS/CA S008:2010  
INCLUDING AMENDMENT No. 1/2014  
REQUIREMENTS FOR CUSTOMER CABLING PRODUCTS  
(INCLUDING RELEVANT CLAUSES OF IEC 60603-7)\***

|                      |   |   |
|----------------------|---|---|
| Client:              | DINTEK Electronic Limited   |   |
| Address:             | NO.8, Lane 97, WU-KONG RD.WU-KU INDUSTRIAL DISTRICT, HSIN CHUANG TAIPEI HSIEN, TAIWAN, R.O.C. |   |
| Report Number:       | 0214DIN1402-04011_S008  |   |
| Date of Testing:     | 15 December 2017 to 12 February 2018  |   |
| File Number:         | DIN171025   |   |
| Product Name:        | POWERMAX 24 PORT CAT6 19" PATCH PANEL   |   |
| Product Model No:    | 1402-04011  |   |
| Brand Name:          | DINTEK Electronic   |   |
| Product Description: | 24 Port Category 6 fully loaded modular UTP patch   |   |
| Result:              | <b>Complies</b>   |   |
| Compiled by:         | Zhimou Qin  |  |
| Approved by:         | Nina Rodoreda   |   |
| Date of Issue        | 14 February 2018  |   |

Results appearing herein relate only to the sample(s) tested.  
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**\* Refer to summary page for any conditions.**

**SUMMARY OF COMPLIANCE WITH AUSTRALIAN STANDARD**  
**AS/CA S008:2010 including amendment No. 1/2014**  
**(Including relevant clauses of IEC 60603-7)\***

The PowerMAX 24 Port Cat6 19" Patch, Model No. 1402-04011 was supplied for AS/CA S008:2010 testing by DINTEK Electronic Limited of NO.8, Lane 97, WU-KONG RD.WU-KU INDUSTRIAL DISTRICT, HSIN CHUANG TAIPEI HSIEN, TAIWAN, R.O.C.

The Equipment Under Test (EUT) consisted of a 19" rack mounted telecom panel with 24 - RJ45 sockets. An assembly of 6 - RJ45 sockets were mounted onto a PCB and connected to Insulation Displacement Connectors (IDC). The body of the connector was plastic and the connector circuit board assembly was mounted in a metal frame with the rear open for cable entry. Please refer to the photos in Appendix B, at the rear of the report.

The EUT had the following marking on the Circuit Board: A3-ROHS LE000422

The PowerMAX 24 Port Cat6 19" Patch, Model No. 1402-04011 **COMPLIES** with the tested clauses of AS/CA S008:2010.

**Possible Test Case Verdicts:**

- test case does not apply to the test object .....N(.A)
- test object does meet the requirements .....P(ass)
- test object does not meet the requirements .....F(ail)
- testing was not performed .....NT
- noted .....ND

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| AS/CA S008:2010 |  |                 |         |
|-----------------|--|-----------------|---------|
| Clause          | Requirement - Test   | Result - Remark | Verdict |
| 5.              | REQUIREMENTS   |                 | P       |
| 5.1             | GENERAL<br>Cabling products shall be physically distinguishable from products used for distribution or connection of AC mains supply.  |                 | P       |
| 5.2             | MARKINGS   |                 | P       |
| 5.2.1           | Labelling Notice   |                 | ND      |
| 5.2.2           | Inappropriate markings<br>Cabling products intended solely for telecommunications use shall not bear markings indicating hazardous services.   |                 | P       |
| 5.2.3           | Additional markings (excluding cable markings)   |                 | N       |
| 5.2.3.1         | International protection (IP) rating   |                 | N       |
| 5.2.3.2         | Multidiscipline telecommunications connecting hardware   |                 | N       |
| 5.3             | UNDERGROUND CONDUIT  |                 | N       |
| 5.4             | CABLE DISTRIBUTION DEVICES   |                 | P       |
| 5.4.1           | Common requirements  |                 | P       |
| 5.4.1.1         | Cable entry<br>Cable entry holes shall be free of sharp edges or burrs or have a grommet of insulating material fitted.  |                 | P       |
| 5.4.1.2         | Conductive enclosure   |                 | P       |
| 5.4.1.2.1       | Enclosure, frame and backmount earthing<br>Provision shall be made to enable conductive enclosures, frames and backmounts to be connected to the building electrical earthing system in accordance with the applicable requirements of AS/ACIF S009 [20].  |                 | P       |
| 5.4.1.2.2       | Insulation<br>All parts intended to carry voltages up to TNV, except connecting hardware that is tested separately to Clause 5.7, shall be electrically insulated to a minimum value of 1.5 kV a.c. (50 Hz) without breakdown for 60 s from any conductive part of enclosures, or terminals provided to make a connection to the enclosure itself. |                 | P       |
| 5.4.1.3         | Enclosure requirements   |                 | P       |

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| 5.4.1.3.1       | <b>Openings</b><br>Any openings, other than cable entries, in enclosures shall comply with the physical requirements for electrical enclosures given in Clause 4.6 of AS/NZS 60950.1[19].  |                 | P       |
| 5.4.1.3.2       | <b>Sharp edges</b><br>An enclosure shall be free from exposed sharp edges that may cause damage to cable or injury to any person.  |                 | P       |
| 5.4.1.3.3       | <b>Outdoor enclosures</b><br>Enclosures intended for outdoor installation shall provide a minimum degree of protection of IPX3 in accordance with AS 60529 [16]. Compliance with Clause 5.4.1.3.3 should be checked after the enclosure has been opened and closed at least ten (10) times.              |                 | N       |
| 5.4.1.3.4       | <b>Shared enclosures</b>   |                 | N       |
| 5.4.1.4         | <b>Earthing or bonding bars and terminals</b>  |                 | N       |
| 5.4.1.4.1       | <b>Insulation</b><br>Where an earthing/bonding bar or terminal is provided other than for the purpose of Clause 5.4.1.2.1, it shall be insulated from any conductive material of the enclosure, backmount or frame to withstand a potential difference of 1.5 kV a.c. (50 Hz) for 60 s.                  |                 | N       |
| 5.4.1.4.2       | <b>Earthing or bonding conductor connections</b><br>An earthing/bonding bar or terminal intended for connection of earthing or bonding conductors shall comply with the requirements of AS/ACIF S009 [20] for earthing/bonding bars and terminals used for connection of earthing or bonding conductors. |                 | N       |
| 5.4.1.4.3       | <b>Access to earthing or bonding bars or terminals</b><br>An earthing/bonding bar or terminal shall be enclosed or located to prevent unintentional contact by a person who is not doing cabling work (e.g. an end-user).  |                 | N       |
| 5.4.1.5         | <b>Access to cable terminations</b><br>All telecommunications terminations shall be enclosed or located to prevent unintentional contact with voltages other than SELV by a person who is not doing cabling work (e.g. an end-user).   |                 | P       |
| 5.4.2           | <b>Main distribution frame (MDF)</b>   |                 | N       |
| 5.5             | <b>OPTICAL FIBRE DISTRIBUTION DEVICES AND ENCLOSURES</b><br>Optical fire distribution devices and splice enclosures shall comply with AS/NZS 2211.1  |                 | N       |
| 5.6             | <b>CABLES</b>  |                 | N       |

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| AS/CA S008:2010 |   |                      |         |
|-----------------|---|----------------------|---------|
| Clause          | Requirement - Test  | Result - Remark      | Verdict |
| 5.7             | CONNECTING HARDWARE, INCLUDING PLUGS AND SOCKETS OF ALL DESIGNS   |                      | P       |
| 5.7.1           | General   |                      | P       |
| 5.7.1.1         | Insulation resistance<br>The insulation resistance between any two points which are required to be electrically insulated shall be a minimum of 100 MΩ. The insulation resistance measurement is to be made after 500V ± 50 V d.c. has been applied for a period of 60 s  | Measured: > 100 MΩ   | P       |
| 5.7.1.2         | Contact resistance  |                      | P       |
| 5.7.1.2.1       | Insulation Displacement contacts<br>The contact resistance in connecting hardware other than the types of plugs and sockets covered in Clauses 5.7.2, 5.7.3 and 5.7.4 shall comply with the requirements of IEC 60352-4 Clause 12.3.1.  | Measured: 0.3347 mΩ  | P       |
| 5.7.1.2.2       | Plug and socket connection<br>For connectors using a plug and socket, other than the types of plugs and sockets described in Clauses 5.7.2, 5.7.3 and 5.7.4, the interface resistance of the overall mated connection or shield connection shall not exceed 50mΩ using the test method described in Clause 12.3.1 of IEC 60352-4. |                      | N       |
| 5.7.1.3         | Electric strength<br>Electrically conductive elements normally at telecommunications network voltage (TNV) shall comply with Clause 6.4.2 (Voltage proof) of IEC 60603-7.   | Refer to Appendix A. | P       |
| 5.7.1.4.        | Protection against contact with exposed circuits<br>Connectors, plugs and sockets with metallic conductors and shields shall comply with the probe test of Clause 6.2.1 (b) (Separation requirements) of AS/NZS 60950.1.  |                      | N       |
| 5.7.1.5         | Weather resistance<br>Plugs and sockets exposed to weather and damp areas shall have a minimum degree of protection of IPX3 against the ingress of water when tested in accordance with AS 60529.   |                      | N       |

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|-----------------|--|----------------------|---------|
| Clause          | Requirement - Test   | Result - Remark      | Verdict |
| 5.7.1.6         | Access to cable terminations<br>All telecommunications terminations shall be enclosed or located to prevent unintentional contact with voltages other than SELV by a person who is not doing cabling work (e.g. an end-user).  |                      | P       |
| 5.7.1.7         | Prohibited arrangements<br>A connecting device's faceplate for telecommunications wiring shall not incorporate a low voltage fixed socket-outlet or switch.  |                      | N       |
| 5.7.2           | Eight (8) position modular plugs and sockets<br>In addition to the general requirements of Clause 5.7.1, eight (8) position modular plugs and sockets shall comply with the following Clauses of IEC 60603 7:<br>6.4.2 Voltage proof<br>6.4.3 Current - temperature derating<br>6.4.4 Initial contact resistance<br>6.6.1 Mechanical operation (Cycle)<br>6.6.2 Effectiveness of a connector coupling device   | Refer to Appendix A. | P       |
| 5.7.3           | Six (6) position modular plugs and sockets<br>Six (6) position modular plugs and sockets shall-<br>(a) be mechanically designed according to CFR FCC 68.500 (a) and (b) ; and<br>(b) In addition to the general requirements of Clause 5.7.1, shall comply with the following Clauses of IEC 60603-7:<br>6.4.2 Voltage proof<br>6.4.3 Current - temperature derating<br>6.4.4 Initial contact resistance<br>6.6.1 Mechanical operation (Cycle)<br>6.6.2 Effectiveness of a connector coupling device |                      | N       |
| 5.7.4           | 600 series plugs and sockets   |                      | N       |
| 5.8             | CABLING PRODUCTS FOR UNDERGROUND AND AERIAL INSTALLATIONS  |                      | N       |

\*\*\* END OF REPORT BODY \*\*\*

**Appendix A – Additional Test Data**  
**Appendix B – Photographic Record of Sample**  
**Appendix C – Specifications provided by the client**

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|            |                      |                 |         |
|------------|----------------------|-----------------|---------|
| Appendix A | Additional test data |                 |         |
| Clause     | Requirement - Test   | Result - Remark | Verdict |

### Appendix A – Additional Test Data

#### IEC 60603-7 Clauses of Section 5.7 Connecting hardware, including plugs and sockets of all designs

|                 |   |  |   |
|-----------------|---|--|---|
| 5.7.1.3 & 5.7.2 | IEC 60603-7 Clause 6.4.2 Voltage proof  |  | P |
|                 | IEC 60512, Test 4a<br>Standard atmospheric conditions. Mated connectors.<br>1000 VDC or AC peak, contact to all contacts. |  | P |
|                 | Test method used (A, B or C) and details to be specified.   | Method = A<br>Duration = 60 seconds<br>Current Limit = 2 mA<br>See also below. | P |

| Test Voltage applied between:      | Test Voltage (V) | breakdown<br>Yes / No |
|------------------------------------|------------------|-----------------------|
| Each contact to all other contacts | 1000 V a.c. peak | No                    |
|                                    |                  |                       |

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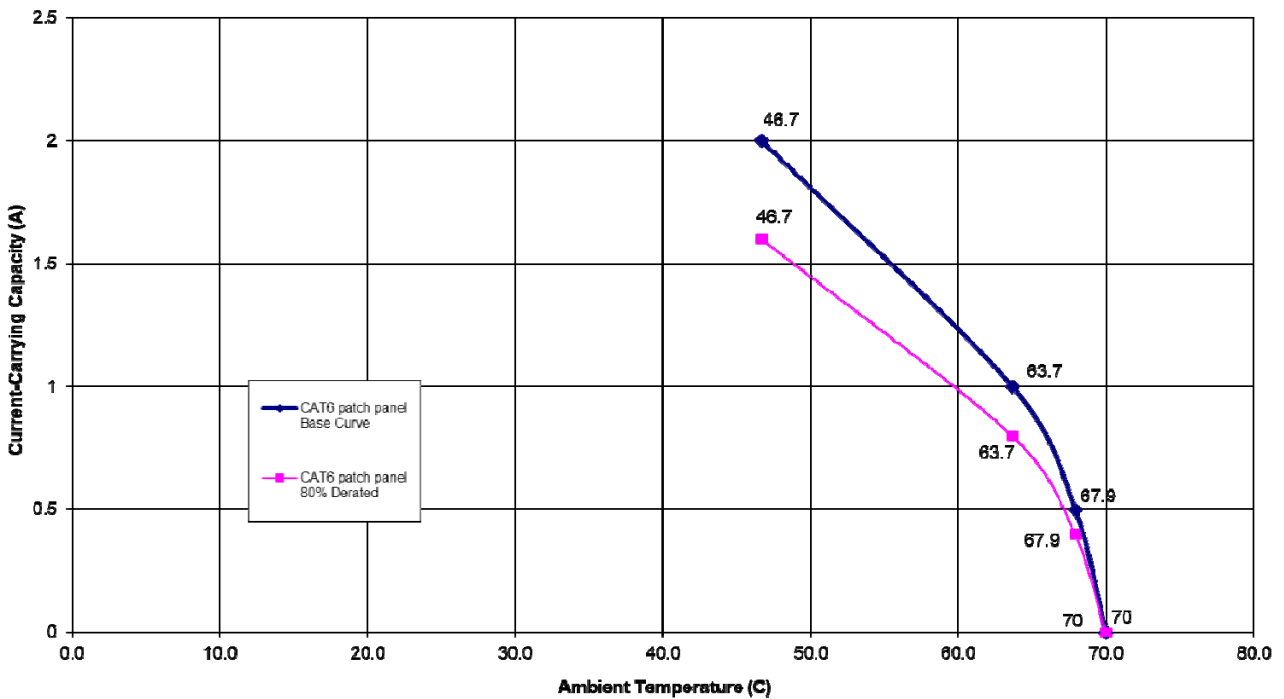


|            |                      |                 |         |
|------------|----------------------|-----------------|---------|
| Appendix A | Additional test data |                 |         |
| Clause     | Requirement - Test   | Result - Remark | Verdict |

### Appendix A – Additional Test Data

|               |  |  |   |
|---------------|--|--|---|
| 5.7.2 & 5.7.3 | IEC 60603-7 Clause 6.4.3 Current-temperature derating                |  | P |
|               | IEC 60512, Test 5b<br>Standard atmospheric conditions. All contacts. |  | P |

**Current Carrying Capacity: Connector Derating Curve**



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|            |                      |                 |         |
|------------|----------------------|-----------------|---------|
| Appendix A | Additional test data |                 |         |
| Clause     | Requirement - Test   | Result - Remark | Verdict |

### Appendix A – Additional Test Data

|               |   |   |   |
|---------------|---|---|---|
| 5.7.2 & 5.7.3 | IEC 60603-7 Clause 6.4.4 Initial contact resistance   |   | P |
|               | IEC 60512, Test 2a<br>Standard atmospheric conditions Mated connectors. Connection points as specified in IEC603-7 figure 27.<br>Requirement = 20mΩ max   | Test current <100mA DC, emf of test circuit <20mV DC. Both polarities.<br>Measured: 14.01 mΩ                    | P |
| 5.7.2 & 5.7.3 | IEC 60603-7 Clause 6.6.1 Mechanical operation (Cycle)   |   | P |
|               | IEC 60512, Test 9a<br>Speed 10mm/s max. Rest: 1s min. (unmated)<br>PL1: 750 operations; PL2: 2500 operations.   | Compliance is checked by visual inspection, contact resistance, insulation resistance and voltage tests.<br>PL1 | P |
| 5.7.2 & 5.7.3 | IEC 60603-7 Clause 6.6.2 Effectiveness of connector coupling devices  |   | P |
|               | IEC 60512, Test 15f<br>All types: 50 N for 60 ± 5 s.<br>Requirement: Connectors shall remain fully engaged and there shall be no loss of electrical continuity. Latching and unlatching of coupling locks shall be operational and certain. |   | P |

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**Appendix B – Photographic Record of Sample**



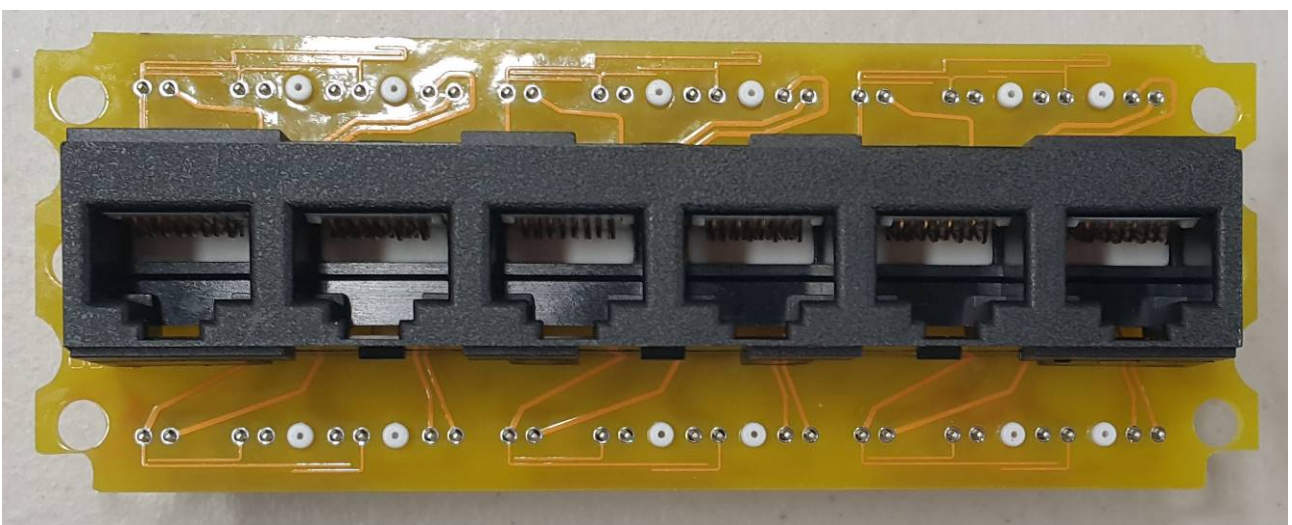
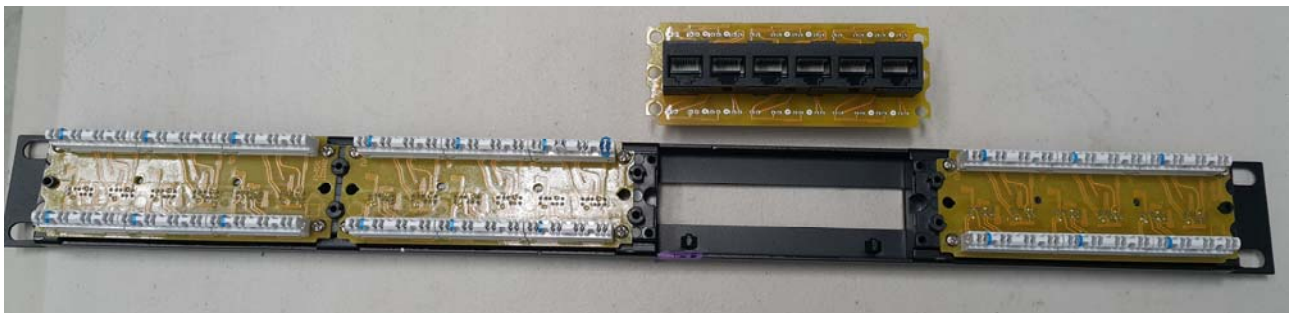
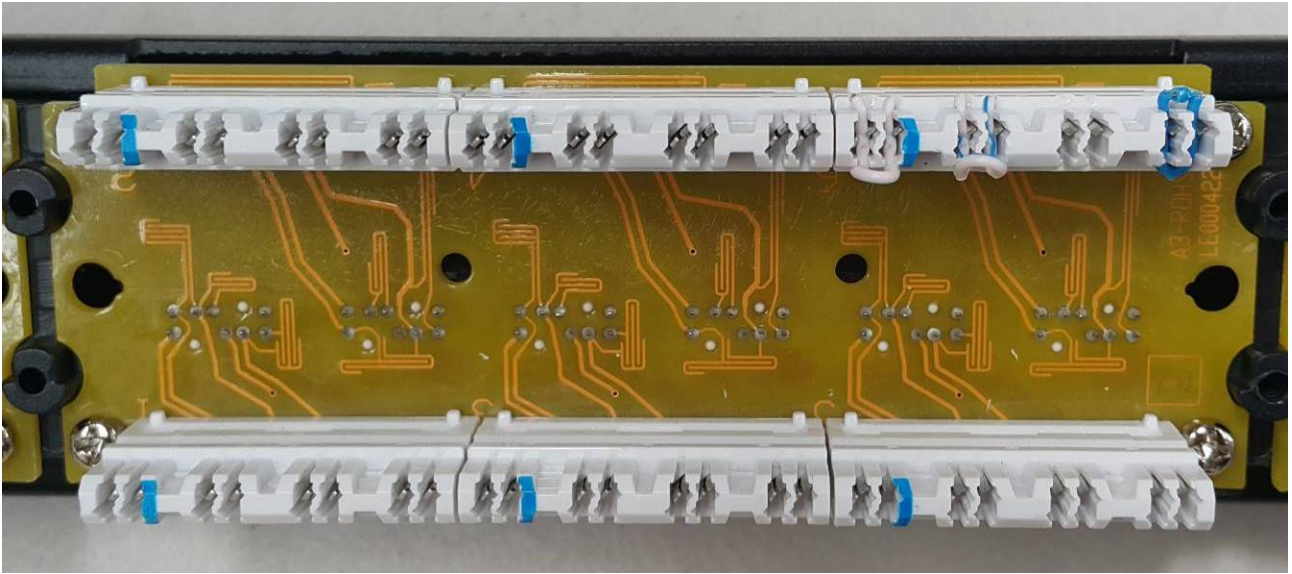
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**Appendix B – Photographic Record of Sample**



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## Appendix C – Specifications provided by the client



### Cat.6 24/48 Port Patch Panel (Component lvl)



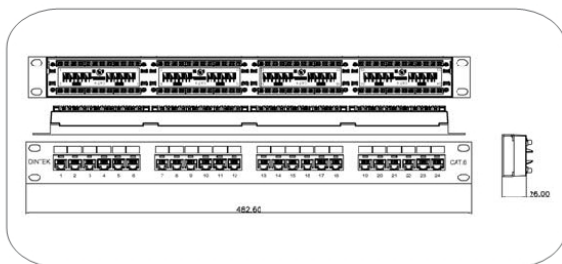
#### Applications

- Voice; T1; ISDN
- 10BASE-T (IEEE 802.3)
- 16Mbps Token Ring (IEEE802.5)
- 100VG-AnyLAN (IEEE802.12)
- 100BASE-T Ethernet (IEEE802.3)
- 155/622Mbps 1.2/2.4 Gbps ATM
- 1000Mbps Gigabit Ethernet
- 550MHz Broadband Video

#### Standards

- UL Verified
- ISO/IEC11801 2nd edition
- ANSI/TIA Standard 568-C.2
- CENELEC EN 50173

#### Construction



#### Features

- Meet ANSI/TIA-568-C.2 Cat.6 component level connecting hardware performance requirements
- Stripped window label for easy management
- 110 and krone dual type IDC termination
- 19" 24 port patch panel, 1U size & 48 port panel, 2U size.
- Accept 22~26AWG, stranded or solid wire
- Modular jack meet FCC part 68
- Wiring: T568A/B
- Optional rear cable management

#### Environmental Conditions

- Temperature range:  
 Storage: -40 to +70°C  
 Operational: -10 to +60°C
- Relative humidity (operational): max. non-condensing 93%

#### Electrical Characteristics

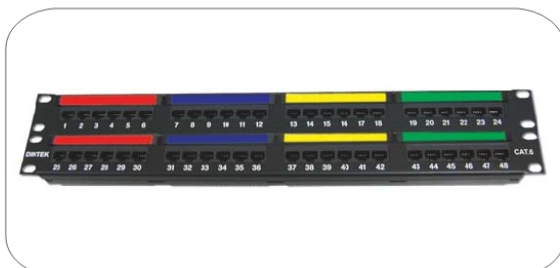
- Insulation resistance between any two conductors:  
 500 MegaOhms min.
- Dielectric with standing voltage: 1000V, RMS, 60HZ, 1 MIN.
- Contact resistance: 20 MilliOhms max.
- Current rating: 1.5 AMPS at 20°C

#### Physical Characteristics

- Housing: High-impact, flame-retardant plastic, UL94V-0 rated, Spring wire / contact blades
- Contact material: Phosphor bronze alloy
- Plate: SPCC-SD 16G

#### Mechanical Characteristics

- Total mating force: 800 GRAMS for a 8 wire leads minimum.
- Retention: 30lbs min between the jack and plug.
- Insertion/Extraction life: 750 cycles minimum.
- Number of IDC terminations: 200 minimum.



#### Ordering Information

| Part No.   | Description                                       | Std. Ctn. Qty |
|------------|---|---------------|
| 1402-04011 | Cat.6 19" 110/krone type Patch Panel 24 ports, 1U | 25            |
| 1402-04012 | Cat.6 19" 110/krone type Patch Panel 48 ports, 2U | 10            |

Note Specifications are subject to change without any notice or obligation on the part of the manufacturer.

|  |  |  |
|--|--|--|
| 鼎志電子股份有限公司 24886 台北縣新莊市五工路97巷8號5樓<br>DINTEK Electronic Ltd TEL: +886-2-22997898 FAX: +886-2-22997770<br>No.8, Lane 97, Wugong Rd., Sinhuang City, Taipei County 24886 Taiwan<br><a href="http://www.dintek.com.tw">http://www.dintek.com.tw</a> E-Mail : sales@dintek.com.tw | DINTEK Switzerland<br>St. Oswalds Gasse 17, CH - 6300 Zug, Switzerland<br>TEL: +41-41-7101073 FAX: +41-41-7101073<br><a href="http://www.dintek-switzerland.ch">http://www.dintek-switzerland.ch</a> E-mail: sales@dintek-switzerland.ch | <b>DATA SHEET</b><br><b>DS1401-04012</b> |
|--|--|--|

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