

TrueNet®

Consolidation Boxes – 24 and 48-pair

Issue 1



Used in horizontal cabling as a consolidation point for a network.

The 24-pair Consolidation Box - contains 3 HighBand® 8 Disconnection Modules. The 48-pair Consolidation Box - contains 3 HighBand 16 Switching Modules.

HighBand Module Features:

- The contacts are silver plated and made from special spring copper alloy
- The module shells are moulded from ductile PBT plastic featuring very high chemical resistance
- The modules are terminated with the standard ADC KRONE termination tool 6089 2 003-00 or 6417 2 055-01

Specifications

Highband Modules

Mechanical:

Environment for use: Indoors or in dry enclosure rated IP54 or greater
Operating temperature range: - 20°C to + 80°C
Maximum relative humidity: ≤93% non-condensing
Wire range for solid and stranded copper conductors: 0.4-0.65 (26-22 AWG)*

* A maximum of 2 equal, solid conductors only, of up to 0.5 conductor diameter can be terminated per slot

Only 1 conductor of stranded wires per slot can be terminated.

If any conductors > 0.5 have been terminated, reversal to smaller conductors is no longer possible.

Wire insulation diameter range (PE, PVC): 0.7–1.4mm
Number of wire terminations: typically ≥200
Wire insertion force (0.5, conductor dia): typically 6N
Wire pull out force, radial (0.5, conductor dia): typically ≥5N
Wire pull out force, axial (0.5, conductor dia): typically ≥35N
Number of patching cycles, Modules: typically ≥750
Patch plugs: typically ≥200

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Electrical:

Transmission and reliability:.....exceeds Cat 5e TIA/EIA 568-5
Change of contact interface resistance after reliability testing
to EIA568A and ISO/IEC 11801 per through connection.
i.e 2 insulation displacement and 1 disconnection contact joints: typically <5mΩ
Voltage/current rating at 25°C ambient: ≤150VAC at 2.5A max.
Dielectric strength:..... ≥1.5kVAC
Surge voltage strength (1.2/50 µsec wave shape): ≥2.5kV
Surge current strength (8/20 µsec wave shape) Modules: ≥3kA
Patch plugs: ≥0.5kA
Insulation resistance:..... ≥5x10⁴ MΩ at 500 VDC
Safety: UL 1863
Flammability rating of plastic housing: UL 94 V-0

Ordering Information

Description	Quantity	Colour	Product No.
24-pair Consolidation Box	Box of 1	Grey	6455 1 051-00
48-pair Consolidation Box	Box of 1	Grey	6455 1 057-00

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