

Performance and Warranties Profile for Belden 4800 System Certified Installations

Overview:

Belden will provide its authorized PartnerAlliance Networking Installers, for the benefit of their end users, with both an extended Belden Component Warranty and a Lifetime Application Assurance Program for all Belden Certified Networking Systems installed by the Certified PartnerAlliance Networking Installer.

The extended Belden Component Warranty and the Lifetime Application Assurance Program are offered to the Certified PartnerAlliance Networking Installer by Belden Inc., in accordance with the following terms and conditions.

This Warranty and this Lifetime Application Assurance Program apply only to Belden Certified Networking Systems installed by the Certified PartnerAlliance Networking Installer in compliance with the PartnerAlliance Networking Agreement.

A Belden Certified Networking System is a structured cabling system that has been engineered, designed and installed by the Belden Certified PartnerAlliance Networking Installer. The engineering, design and installation of the Belden Certified Networking System must be performed in accordance with all applicable Belden guidelines, practices, and other Belden Program Documentation in effect at the time of installation. Belden structured cabling installations that meet these requirements will receive a Certification Registration Number and certification plaque or certificate from Belden and will then be designated as a Belden Certified Networking System, eligible for the extended Belden Component Warranty and Lifetime Application Assurance Program described below.

In order to maintain the validity of the extended Belden Component Warranty and the Lifetime Application Assurance Program, the Belden Certified Networking System must be maintained in accordance with the Belden End User Guide in effect at the time of installation.

Extended Belden Component Warranty:

Belden warrants that;

1. The Belden passive components installed in the Belden Certified Networking System are covered by a manufacturer's warranty against defects in material and workmanship for a period of twenty-five (25) years from the date of installation, at the original installation location.
2. The Belden Certified Networking System will meet or exceed the UTP channel transmission requirements specified by:

Category 6 ANSI/TIA-568.2-D and ISO/IEC 11801-1 (edition 1), Class E

Once an installed Belden passive component has been deemed defective by Belden, Belden shall repair or replace, at Belden's discretion, the defective component. Belden may use refurbished materials in either repair or replacement procedures, and the repaired or replaced component will be warranted for the balance of the original twenty-five year warranty period, or, ninety (90) days, whichever is longer.

The repair or replacement of a defective component under this warranty includes the reasonable costs of labor required to repair or replace the defective component. The decision of repair or replacement of components, and the selection of labor services to perform the repair or replacement are at the sole discretion of Belden Inc.

Lifetime Application Assurance Program:

In addition to the extended Belden Component Warranty, Belden also provides a Lifetime Application Assurance Program for all Belden Certified Networking Systems.

Belden's Lifetime Application Assurance Program warrants that the Belden Certified Networking System will be capable of supporting all industry standard applications during its entire installation life at its original installation location.

Industry standard applications include;

1. All Category 6 applications identified in the current (at time of installation) Belden Program Documentation, and;
2. Any Category 6 applications introduced at a future date by recognized standards bodies and user forums that use ANSI/TIA-568.0-D, ANSI/TIA-568.1-D, and ANSI/TIA-568.2-D, or Class D or E in ISO/IEC 11801-1 (edition 1) and 11801-2 (edition 1) channel specifications for cabling.

In the event that the Belden Certified Networking System is unable to support an existing or future industry standard application as defined above, and such failure can be attributed to a deficiency in the Belden Certified Networking System, Belden will provide at, its expense, reasonable expertise, Belden materials and labor as required to remedy the problem and/or resolve the claim. The decision of repair or replacement of materials, and the selection of labor services to perform the remedial services are at the sole discretion of Belden Inc.

Limitations:

Belden Inc. will not be liable for, nor pay for, any loss of use of the Belden Certified Networking System or products; costs of substitute goods, facilities or services; or for any other economic losses or incidental, consequential or exemplary damages.

This extended Belden Component Warranty and Lifetime Application Assurance Program for the Belden Certified Networking System does not cover any deficiencies in the System which result from failure to comply with Belden Design Guides, Program Documentation and installation procedures as well as ANSI/NECA/BICSI 568-2006, Standard for Installing Commercial Building Telecommunications Cabling. Belden connectivity conforms to requirements of IEC 60603-7 and is interoperable with all connectivity meeting this requirement. This warranty does not cover products not supplied by Belden Inc., including port damage to active equipment.

The following plugs are not covered by this warranty:

- C6PFCU-B24
- CAPFCU-B25
- C5PFCF-B25
- CAPFCF-B25

Belden Inc. shall not be liable for damages or defects resulting from circumstances beyond its control, including but not limited to, any misuse, abuse, neglect, alteration, unauthorized or improper repairs, acts of God or accidental damage or exposure (including without limitation damage by fire, water, paint, chemicals or natural disaster). Repair or replacement of the Belden Certified Networking System by Belden Inc. is your exclusive remedy.

This is the only warranty on the Belden Certified Networking System. There are no other warranties, express or implied, made by Belden Inc.

Belden 4800 System Gigabit Cabling Solution:

In addition to the extended Belden Component Warranty and Lifetime Application Assurance Program described on the previous page, Belden Certified 4800 Systems that conform with the Belden 4800 System Channel Configuration are guaranteed to meet or exceed the following performance parameters for the duration of their installed lifetime at the original site of installation. All conditions regarding original design, installation and maintenance for Belden Certified Networking Systems must be met in order to validate these performance parameter guarantees.

Belden 4800 System Performance	
Bandwidth	300 MHz
Data Rate Capacity	4.8 Gb/s

Belden "Beyond Category 6™"			
Specifications Parameter	@100 MHz	@200 MHz	@300 MHz
PSNEXT	44.7 dB	39.1 dB	34.6 dB
Insertion Loss	18.5 dB	27.3 dB	34.6 dB
PSACR	26.2 dB	11.8 dB	0.10 dB
PSELFEXT	27.3 dB	21.3 dB	17.8 dB
Return Loss	14.0 dB	10.0 dB	8.2 dB
Propagation Delay	490 ns	490 ns	490 ns
Delay Skew	25 ns	25 ns	25 ns

System	Horizontal Cable	Connectivity	Patch Panels	Outlets
4800 UTP System	DataTwist 4800 UTP System Cable	CAT6+ REVConnect Modular Jacks	CAT6+ Patch Panels	KeyConnect Faceplates and Accessories
		CAT6+ KeyConnect Modular Jacks		KeyConnect Adapters and Boxes
	CAT6+ Pre-Term Cable Assemblies	CAT6+ Modular Jacks (MDVO Style) ¹	KeyConnect Modular and AngleFlex Patch Panels	MediaFlex Outlet Systems
		CAT6+ KeyConnect Couplers	KeyConnect Front Access Patch Panels	Multi-User Outlet Box
		CAT6+ Pigtailed	Flex Modular Patch Panels (MDVO -Style) ¹	Multimedia Outlet Box
	CAT6+ Patch Cords		Interface Plates (MDVO-style) ¹	
	CAT6+ Traceable Patch Cords		MDVO Adapters and Boxes ¹	
GigaBIX IDC System				

Note ¹: Belden does not recommend mixing KeyConnect and MDVO-style footprints in the same project