

TECHNICAL DATASHEET	code	CA00600
	date	2014-12-09
	Version	3
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1. Application:

DataTuff® Patchcord terminated with IP20 RJ45 on both sides for interconnection of data communication equipment such as Industrial Ethernet.

2. Description:

Cable assembly consisting of BELDEN 74001E: 4PR AWG24/1 CAT5E SF/UTP FRNC with both sides connectorised to a IP20 Industrial RJ45 CRIMP MALE connector and molded boot.

3. <u>Codenum</u>ber:

Belden Codenumbers: CA00600.00Cyy.

The "C" represents the cable is coiled into a ring, a D represents a ring with length <1mtr The "yy" represents the length of the patchcord.

Example:

CA00600.00C10 = 74001E IP20 RJ45 - IP20 RJ45 10m CA00600.00C1D5 = 74001E IP20 RJ45 - IP20 RJ45 1.50 m

4. Mechanical and electrical properties:

High voltage test: 1.5kV_dc between contacts and contact to housing

Wire continuity: tested each wire/contact and shield

Operating temperature rating: -10 up to +60°C Storage temperature rating: -40 up to +70°C See table 2 for additional mechanical requirements

Test Title	Agency Standard	
Insert Loss/ attenuation	ISO/IEC 11801 or TIA/EIA-568-B.2 Clause	
	4.5 and 6.0 including 1.5 de-rating factor for	
	stranded cables	
FEXT loss	TIA/EIA-568-B.2 clause 6	
NEXT(*)	ISO/IEC 11801 A2	
Return Loss	ISO/IEC 11801 A2	
Coupling attenuation	ISO/IEC 24702 table 4 E ₂ class D channel	
	minimum	
Delay	TIA/EIA-568-B.1 de-rated according to length	
	based on 100 meter channel	
Delay Skew	TIA/EIA-568-B.1	
Note: Next requirement de-rated according ISO/IEC 11801 according to cable length		

Table 1: RJ- 45 Cordset Electrical/Transmission Requirements

Test Title	Test Conditions	Pass Criteria
Installation pull simulation	With connector mated to a jack, apply 20 pound load for 1 minutes to cable in line with axis of connector at room temperature.	Must Pass Electrical/Transmission requirements in chart above before, and after testing. No signs of degradation to



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cable, connector or cable to
connector interface after
load removed.

Table 2: RJ45 IDC Industrial cordset Additional Mechanical Requirements

5.1 Connector RJ45 requirements:

Mechanical	IEC 60603-7-4
Electrical/ Transmission	IEC 60603-7-4 and TIA 568B.2
Insertion life	> 750 mating cycles (EIA/TIA-568-B.2 annex K.6.2.2.2)
Contact resistance	20 mΩ maximum
Category	5e minimum

5.2 Wiring scheme: According EIA/TIA 568B

TIA568B	Pin assignment RJ45	
Pin no.	Colour of insulation	
1	White/Orange	
2	Orange	
3	White/Green	
4	Blue	
5	White/Blue	
6	Green	
7	White/Brown	
8	Brown	

6. Change history

Revision #	Date	By
1	13-6-2013	PBe
2	24-01-2014	PBe
3	08-12-2014	LC



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2011/65/EU, 02 Jan. 2013); this is valid for all material produced after the RoHS compliant date for this product.