

# BULLETIN

**Belden DataTwist 5e  
and DataBrite® cables  
are easy to install and  
offer you the most reliable  
performance to meet  
the TIA/EIA-568-B.2  
Category 5e standard.**



## Belden® DataTwist® 5e Twisted Pair Networking Cables

Today's high-speed data communication demands reliable cable performance. DataTwist 5e cables from Belden are easy to install and offer you all the performance you need to meet the TIA/EIA-568-B.2 Category 5e standards.

### Exceed Category 5e Performance

Tested up to 350 MHz, DataTwist 5e cables support all current and proposed applications that operate using the TIA/EIA-568-B.2 standard. They are an efficient choice for such Category 5e applications as Gigabit Ethernet, 155 Mbps ATM, 100BaseT, 100 Mbps TP-PMD, ISDN, Token Ring and other high bandwidth applications.

DataTwist 5e is available in CM (1583A), CMR (1583B, 1583R) and CMP (1585A, 1585B) ratings. All constructions feature 4-pair UTP (unshielded twisted pair) cables with 24 AWG solid bare copper conductors, a rip cord and two-foot interval markings on the jacket.

- > 1583A and 1583R have polyolefin insulated conductors and PVC jackets.
- > 1583B also has polyolefin insulation, but features DataBrite 5e jacketing in Fluorescent Pink PVC.

- > 1585A is FEP insulated with a Flamarrest® jacket.
- > 1585B is FEP insulated with DataBrite 5e jacketing in Fluorescent Pink Flamarrest.

### Quality You Can Trust

Belden cable is manufactured using the industry's highest standards of quality, with the most advanced equipment, systems, controls and processes. In fact, Belden has long been a pioneer in production processes, such as statistical process control (SPC), that have become industry standards. And Belden was the first major designer and manufacturer of specialty wire and cable products to achieve ISO 9000 registration.

### For Enhanced Performance

For additional pair and Return Loss stability during installation, see your local Belden Sales Representative about patented Bonded-Pair products such as DataTwist 350, MediaTwist® or DataTwist 600e.

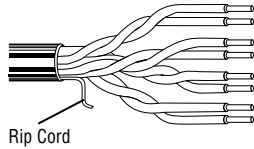


## DataTwist® 5e Twisted Pair Networking Cable

### Product Description

4-pair UTP (unshielded twisted pair) cable, 24 AWG solid bare copper, rip cord, flexible jacket. Jacket is sequentially marked at two-foot intervals. Supports applications intended for Category 5e type cables such as 10BaseT, 100BaseT, 155 ATM and Gigabit Ethernet (1000BaseT). Third party verified to TIA/EIA-568-B.2 Category 5e.

### Physical Characteristics



	Non-Plenum (1583A, 1583R, 1583B)	Plenum (1585A, 1585B)
<b>Temperature Range:</b>	-20 to +80°C	-20 to +75°C
<b>Insulation Material:</b>	Polyolefin	FEP
<b>Jacket Material:</b>	PVC	Flamarrest®
<b>Min. Conductor OD:</b>	.019" (.48mm)	.019" (.48mm)
<b>Min. Insulation OD:</b>	.034" (.86mm)	.034" (.86mm)
<b>Nominal OD:</b>	.214" (5.43mm)	.200" (5.08mm)
<b>Nominal Weight:</b>	21.0 lbs./1000 ft. (1583A, 1583B) (9.5 kg/km) 22.0 lbs./1000 ft. (1583R) (10.0 kg/km)	24.0 lbs./1000 ft. (10.9 kg/km)
<b>Min. Bend Radius:</b>	.500" (12.70mm)	.500" (12.70mm)
<b>Max. Pulling Tension:</b>	35 lbs. (15.9 kg)	35 lbs. (15.9 kg)
<b>Applicable Specifications:</b>	TIA/EIA-568-B.2 Category 5e	TIA/EIA-568-B.2 Category 5e
<b>Flame Rating and Test:</b>	NEC/CEC: CM (1583A) NEC: CMR (1583R, 1583B) CEC: CMR FT4	NEC: CMP CEC: CMP FT6

### Jacket Colors

DataTwist 5e cable is available in the jacket colors shown and can be ordered in Belden's crate reel and Unreel® packaging.

1583A, 1583R	1585A	1583B, 1585B
Red	Red	DataBrite® Fluorescent Pink
Orange	Orange	
Yellow	Yellow	
Green	Green	
Blue	Blue	
White	Gray	
Dark Gray	Black	
Black	Pink	
Pink	Natural	

### Color Code

Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

**For More Information:**

[www.belden.com](http://www.belden.com)

Belden Electronics Division Technical Support 1-800-BELDEN-1 or 1-800-BELDEN-3