



DataTuff® Cat 6A Cable

Industrial Ethernet

With higher bandwidth, wider frequency and more PoE capability, Belden's DataTuff Cat 6A cable ensures unmatched data transfer speed and reliability in harsh environments.

- Maintain optimal network performance with faster, high-volume data transfer through greater bandwidth and more Power over Ethernet (PoE).
- Guarantee long-term reliability and overcome installation stresses with bonded-pair design and a 10-year performance warranty.
- Ensure peace of mind in the field with a ruggedized, industrial-grade solution that withstands hazards, such as oil, UV and EMI noise interference.



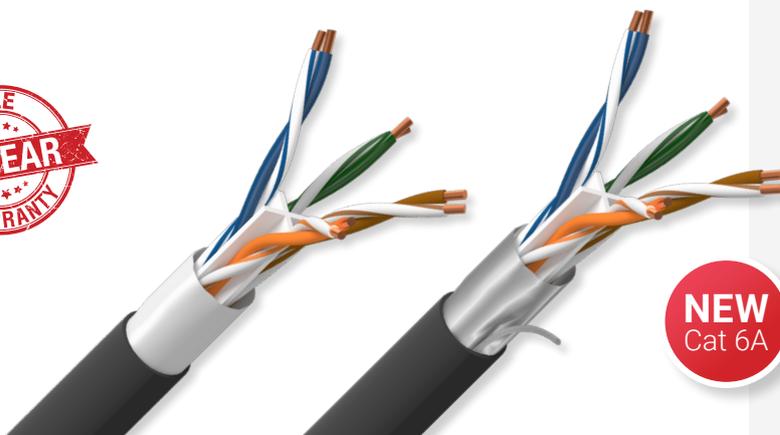
PRODUCT BULLETIN

Key Features

Belden Horizon Network Insights' dashboards offer a comprehensive view into network activity.

- Shielded and unshielded, regular and extreme temperature cable options
- Bandwidth up to 10Gb/s over 100 meters and 500 MHz frequency range
- Supports up to 100W of type 3 and type 4 PoE
- Bonded twisted pair construction for durability, noise immunity and installable performance
- 10-year guarantee of performance consistency and reliability with Belden's limited warranty
- Versatile applications with oil/sun resistance, as well as CMR, CMP, and PLTC ratings
- Compatible with Industrial REVConnect and standard RJ45 connectors

With bonded-pair construction and robust industrial protection ratings, Belden's DataTuff Cat 6A cable offers an incredibly fast and reliable path for data transmission.



Your Benefits

An evolutionary step in industrial Ethernet, Belden's DataTuff Cat 6A cable brings a reliable, fast and powerful option for data communication in harsh settings. Designed with type 3 and 4 PoE up to 100W, higher bandwidth at 10Gb/s and an extended frequency range at 500 MHz, this industrial Cat 6A cable transfers greater volumes of data faster, even in settings riddled with noise, extreme temperatures and other hazards.

The cable is also created with a bonded-pair construction to guarantee consistent performance in a variety of installation conditions for up to ten years. Industrial engineers can choose between standard and extreme temperature cable options to operate in conditions between -40°C to +75°C and -70°C to 150°C, depending on the setting. Both cable options include unprecedented noise immunity and rugged Polyvinyl Chloride (PVC), Fluorinated Ethylene Propylene (FEP), and Thermoplastic Elastomer (TPE) jacket options.

Applications

The DataTuff Cat 6A cable is ideal for use in industrial automation applications that require connecting and powering various sensors, cameras, PLCs, I/O modules, switches, HMI, controls and more. Any setting where high volume of data is anticipated or environmental threats are presented to network performance – plant network infrastructure, outdoor cameras, wireless access points – benefit from using this industrial-grade solution.

Markets

Fast, reliable transfer of large amounts of data is critical to many industrial markets, making the DataTuff Cat 6A cable applicable to a wide range of industries— especially those that experience a substantial amount of environmental threats. This includes oil and gas, process industries, discrete manufacturing, machine building, water/wastewater, mining, food and beverage, automotive, wireless, transportation, mass transit systems, railway and train stations and airports.

Designed for harsh environments, the DataTuff Cat 6A cable is a universal option for engineers that need to move large amounts of data quickly and reliably in various installation conditions.

| Part Number | Shielding | Conductor | Operating Temperature Range | Rating |
|-------------|----------------------------------|-----------|-----------------------------|---|
| IEA001 | Unshielded - UTP | Solid | -40C to 75C | DataTuff Cat6A, Oil/Sun Res PVC Jkt, CMR, Bonded Pair |
| IEA002 | Foil Shielded - F/UTP | Solid | -40C to 75C | DataTuff Cat6A, Oil/Sun Res PVC Jkt, CMR/CMX Outdoor, 600V AWM, Bonded Pair |
| IEA003 | Unshielded - UTP | Solid | -70C to 150C | DataTuff Cat6A, Extreme Temp, Oil/Sun Res FEP Jkt, CMP, Bonded Pair |
| IEA004 | Braided & Foil Shielded - SF/UTP | Stranded | -40C to 75C | DataTuff Cat6A, Oil Res II, Sun Res TPE Jkt, CMR/CMX Outdoor, 600V AWM |
| IEA005 | Braided & Foil Shielded - SF/UTP | Stranded | -40C to 75C | DataTuff Cat6A, Oil Res II, Sun Res TPE Jkt, CMR/CMX Outdoor, 600V AWM |
| IEA006 | Foil Shielded - F/UTP | Solid | -40C to 75C | DataTuff Cat6A, Oil/Sun Res PVC Jkt, PLTC, CMR/CMX Outdoor, 600V AWM, Bonded Pair |
| IEA007 | Braided & Foil Shielded, SF/UTP | Solid | -40C to 75C | DataTuff Cat6A, Oil/Sun Res PVC Jkt, PLTC, CMR/CMX Outdoor, 600V AWM, Bonded Pair |

Belden Competence Center



As the complexity of communication and connectivity solutions has increased, so have the requirements for design, implementation and maintenance of these solutions. For users, acquiring and verifying the latest expert knowledge plays a decisive role in this. As a reliable partner for end-to-end solutions, Belden offers expert consulting, design, technical support, as well as technology and product training courses, from a single source: Belden Competence Center. In addition, we offer you the right qualification for every area of expertise through the world's first certification program for industrial networks. Up-to-date manufacturer's expertise, an international service network and access to external specialists guarantee you the best possible support for products.

Irrespective of the technology you use, you can rely on our full support – from implementation to optimization of every aspect of daily operations.

For more information, visit us at www.belden.com. | Call 1-800-BELDEN-1