



# RS-485 Cable

For Enhanced Automation Systems

## PRODUCT BULLETIN



The Belden RS-485 cables are the reference choice for fieldbus automation systems, including Modbus, BACnet MS/TP, CANopen, or DMX512. Even in the harshest conditions, high reliability and extended reach are achieved through low capacitance design with strong noise protection. In case of fire, highly flame-retardant materials improve people's safety.

- Optimal performance with noise protection and low capacitance to safeguard long-distance cable runs
- Enhanced safety in case of fire, meeting stringent flame performance requirements
- Reliable connectivity even in harsh environments where oil, water, noise, weather and weight are present

Belden RS-485 portfolio delivers optimal performance and reliable communication in most conditions, as well as safety in case of fire.

## Key Features

- Unsurpassed quality and reliability
- Robust design that meets or exceeds UL and IEC standards
- Proven performance in installations worldwide
- TIA/EIA RS-485 120Ω nominal impedance
- Extended reach possible with extra low capacitance and highest noise protection
- Broad range of cross sections (AWG), pair counts, insulation and jacket materials
- Broad environmental and fire rating options: up to NEC/c(UL) Plenum rating (CMP), up to B2ca CPR rated, Power Limited Tray Cable (PLTC), Direct burial
- Up to the highest UL listing and CPR ratings, including CMP, PLTC, and B2ca Euroclass
- Dedicated designs for direct burial, marine and rolling stock
- 10-year warranty

## Your Benefits

End users are able to optimize system uptime with the guaranteed lowest installation, maintenance time and cost from system integrators, contractors and engineers. People and assets are safer in case of fire. Longer distance reach allows the best solution to be implemented.

## Applications

Initially developed for RS-485-based protocols, such as for Modbus, BACnet MS/TP, CANopen, or DMX512, the low capacitance designs allow outstanding signal transmission use in various applications within industrial and enterprise automation. For instance, these can be used in systems performing process control, power management systems, heating, ventilation and air conditioning, PLC automation, access control, or even audio.

## Markets

Belden's RS-485 cable benefits a wide range of markets, including construction, general manufacturing, machine building, transportation and mass transit, traffic control/systems, railway and train stations, and airports.

## Resources

[Belden.com RS-485 Cable](#)

[RS-485 Cable Offering - UL&IEC](#)

[RS 232 /422/485/Canbus Cables - IEC & ABS Marine Approved](#)

[Fire Resistant RS 232/422/485/Canbus Cables - IEC Approved](#)

