



# Gore™ Shielded Twisted Pair

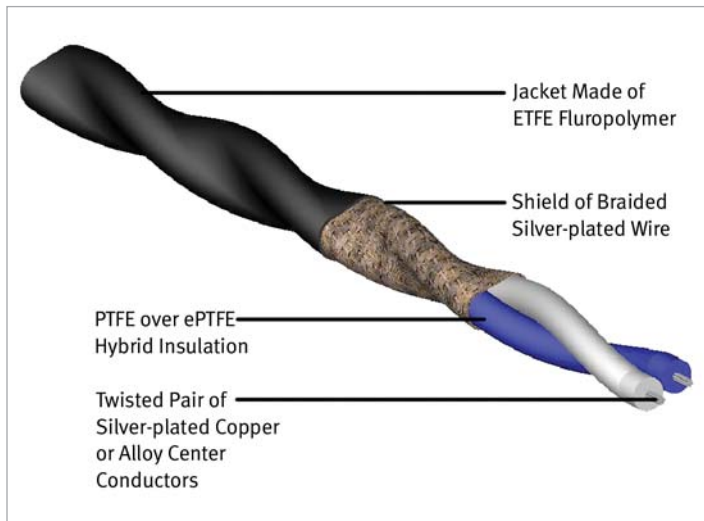
CONTROLLED IMPEDANCE WIRE

## Summary

Gore manufactures a broad range of standard and custom controlled-impedance shielded twisted pair wire. All versions benefit from Gore's 40 years of vertical integration of fluoropolymer material development, highly evolved tape wrap process and design know-how.

Especially suited for mil/aero harness applications

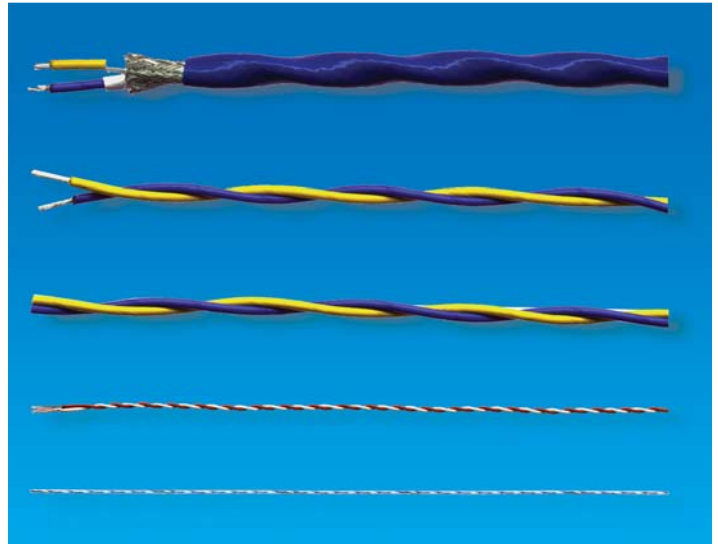
- All materials rated for temperature extremes
- Non-flammable, non-outgassing materials
- Extreme uniformity from Gore's proprietary tape wrapped materials and process
- Hybrid insulation for small size and easy stripping
- Tefzel® jacket for improved radiation resistance



Gore specializes in high-performance custom solutions. Gore manufactures a range of standard controlled-impedance shielded twisted pair as shown above. If your needs include special performance or size, we would be happy to provide a quotation.

### CUSTOM IMPEDANCE

100 Ω and 120 Ω impedance is standard, but any other value can be offered.



GORE™ Shielded Twisted Pair, Controlled Impedance Cables are available in a wide variety of sizes.

## PROPERTIES OF GORE™ CONTROLLED IMPEDANCE, SHIELDED TWISTED PAIR

|                    |  |
|--------------------|--|
| Construction       | Two silver-plated copper conductors each insulated with overlapping tapes of PTFE insulation, twisted and shielded with silver-plated copper braid wire with an overall ETFE jacket. |
| Temperature rating | -55°C to 200°C   |
| Conductors         | Silver-plated copper conductors are standard.  |
| Color Coding       | The two insulated wires are colored white and blue, standard. The outer jacket is colored black, standard.   |
| Voltage rating     | 500 Volts  |
| Impedance          | 100 Ω or 120 Ω are standard. Other impedances are available upon request.  |



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CONTROLLED IMPEDANCE WIRE

## GORE™ CONTROLLED IMPEDANCE SHIELDED TWISTED PAIR PART NUMBERS

| GORE Part Number | AWG (Stranding) | Conductor Diameter | Outside Diameter Nominal | Nominal Weight lbs/1000 ft | Impedance  |
|------------------|-----------------|--------------------|--------------------------|----------------------------|------------|
| DXN2317          | 20 (19/32)      | 0.040"             | 0.210"                   | 25.1                       | 100 Ω ± 10 |
| DXN2308          | 22 (19/34)      | 0.032"             | 0.172"                   | 17.6                       | 100 Ω ± 10 |
| DXN2309          | 24 (7/32)       | 0.024"             | 0.137"                   | 11.0                       | 100 Ω ± 10 |
| DXN2310          | 26 (19/38)      | 0.020"             | 0.110"                   | 9.0                        | 100 Ω ± 10 |
| DXN2311          | 28 (7/36)       | 0.015"             | 0.094"                   | 6.4                        | 100 Ω ± 10 |
| DXN2318          | 30 (7/38)       | 0.012"             | 0.090"                   | 4.9                        | 100 Ω ± 10 |
| DXN2319          | 20 (19/32)      | 0.040"             | 0.232"                   | 29.7                       | 120 Ω ± 10 |
| DXN2312          | 22 (19/34)      | 0.032"             | 0.190"                   | 21.5                       | 120 Ω ± 10 |
| DXN2313          | 24 (7/32)       | 0.024"             | 0.160"                   | 13.2                       | 120 Ω ± 10 |
| DXN2314          | 26 (19/38)      | 0.020"             | 0.133"                   | 11.0                       | 120 Ω ± 10 |
| DXN2315          | 28 (7/36)       | 0.015"             | 0.110"                   | 7.7                        | 120 Ω ± 10 |
| DXN2320          | 30 (7/38)       | 0.012"             | 0.105"                   | 5.3                        | 120 Ω ± 10 |

### IMPEDANCE CONTROL

Standard impedance tolerance is ± 10 Ω. Only Gore can manufacture and wrap extreme-uniformity fluoropolymer tapes to offer impedance control as tight as ± 2% over the entire cable length. Call us for a quote.

### REDUCED CABLE SIZE AND INCREASED DURABILITY

Gore is uniquely capable of offering high-integrity, ultra-thin insulation material such as GORE™ High Strength Toughened Fluoropolymer to offer benefits such as:

- Minimum possible diameter for space savings
- Increased flexibility
- Lightest possible weight
- Unparalleled scrape and cut-through resistance

### ADDITIONAL OPTIONS

- Custom color coding and stripping
- High strength alloy conductors

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