

Shielded Cable for Instrumentation



Cu / PE / Individual Cu Braid (≥80%) / PET / Overall Cu Braid (≥80%) / PVC

APPLICATION	ADVANTAGES	
Designed for reliable data and control signal transmission in computer systems, monitoring circuits, automation control systems, data centers and instrumentation connections. Its shielded twisted-pair construction supports stable signal integrity in high-EMI industrial environments.	■ Precision Pair Twisting: Reduces external interference and inter-pair crosstalk · BER <0.01%	■ Dual Copper-Braid Shielding: Individual pair braid + overall braid · Each ≥80% coverage
	■ Low-Loss OFC Conductor: 99.99% high-purity oxygen-free copper · Low DC resistance · Optional tinned copper	■ Stable PE Insulation: High insulation resistance · Low dielectric loss · Minimal sensitivity to temperature/frequency variation
	■ High-EMI Environment Ready: Suitable for VFDs, high-power motors and industrial control systems	
	Core Performance: Signal integrity · EMI resistance · Stable long-term operation · For computer, instrumentation and industrial automation systems	

CABLE CONSTRUCTION		TECHNICAL CHARACTERISTICS		ELECTRICAL CHARACTERISTICS	
Conductor	Oxygen-Free Copper (OFC)	Standard	JB/T 13486-2018	Rated Voltage	300/500 V
Insulation	Polyethylene (PE)	Max. Continuous Operating Temperature	70°C	Test Voltage	1.5 kV / 5 min
Individual Pair Shield	OFC Wire Braid, ≥ 80% Coverage	Operating Temperature Range	20°C to 70°C	Conductor DC Resistance at 20°C	In accordance with GB/T 3956
Individual Pair Wrapping	Polyester Tape (PET)	Minimum Bending Radius	6–12 × OD	Insulation Resistance	≥ 500 MΩ·km
Overall Wrapping	Polyester Tape (PET)	Flame Retardancy	IEC 60332-1	Mutual Capacitance	In accordance with JB/T 13486-2018
Overall Shield	OFC Wire Braid, ≥ 80% Coverage			Capacitance Unbalance	≤ 2 pF/m
Outer Sheath	PVC			L/R Ratio	In accordance with JB/T 13486-2018
Sheath Color	Black				

DIMENSIONS

No. of Pairs × 2 mm²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Overall Diameter mm	Cable Weight kg/km	Conductor DC Resistance at 20°C Ω/km
1x2x0.5	0.80	0.6	1.2	6.9	63.8	36.0
2x2x0.5	0.80	0.6	1.2	11.4	149.1	36.0
4x2x0.5	0.80	0.6	1.2	13.2	209.7	36.0
4x2x0.75	0.97	0.6	1.3	15.0	267.0	24.5
4x2x1.0	1.13	0.6	1.3	15.8	300.6	18.1
4x2x1.5	1.38	0.7	1.3	17.8	381.0	12.1



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