Communication Cables with Electrical Performance Specifications

Communication cables are designed to transmit signals with specified electrical characteristics. The specifications include parameters such as capacitance, resistance, and attenuation, varying with wire diameter and pair count.

Product Overview

High-Performance Communication Cabling

These communication cables are engineered to meet rigorous electrical performance standards for reliable data transmission. Designed with precision, they feature optimized conductor diameters and pair configurations to ensure stable signal integrity across various network environments. The cables are tested for critical parameters including crosstalk attenuation, insulation resistance, and capacitance stability, making them a robust choice for professional telecommunications infrastructure.

Electrical Performance

Resistance Unbalance

2.5 %	6 %
Max Average	Max Individual

Crosstalk Performance

- Far-end crosstalk (150kHz) power average: e69 dB/km
- Far-end crosstalk (150kHz) minimum: 58 dB/km
- Near-end crosstalk (1024kHz) min M-S value: 53-79 dB (depending on pair count)

Minimum Insulation Resistance	10000 MΩ/km
DC Voltage Test (1 min)	1000V (Conductor to Conductor), 3000V (Conductor to Shield)

Technical Specifications Table

Electrical Performance Data

Parameter	0.32mm	0.40mm	0.50mm	0.60mm
Max DC Resistance (Ω/km)	236	148	95	65.8
Avg Working Capacitance (nF/km)	52	52	52	52

Electrical Parameter Variation (Allowed Pairs)

Wire Pair Count	Allowed Pairs Variation
10-100	1
200	2
300	2
400	3
600	4
>600	6