

Signal Cables

RS485 ELECTRONIC CONTROL CABLE



APPLICATION

- Feeder cable for frequency controlled motors with electromagnetic interference
- At instrumentation and control engineering
- At industrial electronics
- Computer and office devices
- Indoor communication systems
- Indoor sound systems

CABLE CONSTRUCTION

- 1) **Conductor** : Stranded electrolytic copper conductor (IEC 60228, EN 60228, DIN VDE 0295)
- 2) **Insulation** : Solid polyethylene (EN 50290-2-23, BS 6234 Type 03 - ASTM D 1248) (DIN 47100)
- 3) **Stranding** : Insulations are stranded into pairs and all pairs are stranded together
- 4) **Wrapping** : Polyester tape
- 5) **Screen** : Al/PET tape, Tinned copper braiding
- 6) **Outer Jacket** : UV resistant Polyethylene outer jacket. RAL 9005 (Black)

TECHNICAL CHARACTERISTICS

Conductor Resistance $\Omega/\text{km}(20^\circ\text{C})$	Insulation Resistance $\text{M}\Omega/\text{km}(20^\circ\text{C})$	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-250 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
Max. 94	5000	Max. 56	%2	%78-80	100 $\pm$ %5	125	1200

MECHANICAL CHARACTERISTICS

Bending Radius	Temperature Range Operating
7.5xD mm	-30°C ~ +70°C

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Part Number	Pair Count	Conductor Diameter (AWG)	Approx. Cable Diameter(mm)	Copper Weight(kg/km)	Approx. Weight(kg/km)	Packing Lengths(m)
RS485-01-PE	1	22	5.8	12.0	32	500/1000