

E50/55-CS SERIES

Standard Performance Multipair Overall Foil Screened Instrumentation Cable
110Vac 90°C



APPLICATIONS:

Signal and Controls Power control or signal/instrumentation cables on machines, conveying equipment or similar industrial applications.

PRODUCT FEATURES:

- ▶ UV stabilised
- ▶ Flame retardant to IEC 60332-1
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

CONSTRUCTION:

Conductor Annealed plain copper stranded (Class 2).

Insulation PVC V-90 HT.

Filler Non-hydroscopic polypropylene filler.

Screening Collective shield of aluminium/polyester foil complete with tinned copper drain wire (7 strands of 0.2mm²).

Sheath PVC 5V-90.

CHARACTERISTICS:

Operating Temperature Range Fixed -20°C to 90°C.

Maximum Conductor Temperature 90°C.

Rated Voltage 110VAC / 150VDC.

Minimum Bending Radius 10 x cable diameter.

Sheath Colour Black.

Standard Core Colours Each pair – 1 x White and 1 x Black conductor, with numbered cores (Triple – White/Black/Red).

Relevant Standards AS/NZS 1125, AS/NZS 3808, IEC 60332-1,

RoHS Compliant.

Property	0.5mm ²		1.5mm ²	
	Value	Units	Value	Units
DC Conductor Resistance @ 20°C	38.40	Ω/km	13.60	Ω/km
Max. Capacitance Cond. to Cond. (screened)	145	pF/m	200	pF/m
Inductance @ 1kHz	1.00	mH/km	0.95	mH/km
L/R ratio @ 1kHz	13.70	μH/Ω	36.50	μH/Ω
Insulation Resistance @ 20°C	140	MΩ.km	140	MΩ.km

Code	No. of Cores x Size (mm ²)	Nearest AWG	Approx. Stranding No. of wires x mm ²	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)
E5001CS	1 pair 0.5	20	7/0.30	5.0	32
E5002CS	2 pair 0.5	20	7/0.30	6.7	58
E5003CS	3 pair 0.5	20	7/0.30	7.2	78
E5004CS	4 pair 0.5	20	7/0.30	8.2	95
E5102ES	1 pair 1.5	16	7/0.40	6.2	58
E5502CS	2 pair 1.5	16	7/0.40	8.9	112
E5504CS	4 pair 1.5	16	7/0.40	10.9	197
E5301CS	1 triple 0.5	20	7/0.30	5.3	40
E5103ES	1 triple 1.5	16	7/0.40	6.8	75