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Part No: MCT703xxS-AW Series

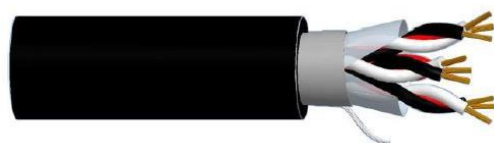
Description 0.5mm² Stranded PACW, V-90 PVC insulated, Tripled, cabled, overall aluminium laminate screened with a 7/0.20mm TAC drain wire, 5V-90 PVC overall jacketed, instrumentation and ELV control cable.

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

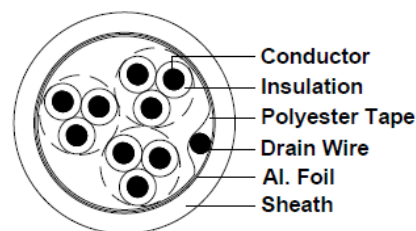
Suitable Applications Instrument and control cable for use in industrial applications including the interconnection of signals between cabinets, consoles, sensors and display panels.

Not Suitable for mains connection.

Cable Construction Drawing



Cable Construction Relative Parts



3 triad cable shown for illustration purposes.
Other pair counts of similar construction
Refer to Construction table

Cable Construction

Conductor	Standard	AS/NZS 1125 or IEC 60228
	Conductor class	Class 2 – Stranded conductor
	Material	PACW
	Nom. Stranding	7/0.3 mm

Instrument & Control Cable

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Insulation	Material	V-90 PVC
	Colours:	Wire 1: Black Wire 2: White Wire 3: Red For cables with 2 or more triads the insulation is numbered with the pair number
Insulation	Nom Diameter:	1.7 mm
	Nom Thickness:	0.4 mm
Basic Element	Twins	Black & White conductors twinned together
Overall Taping and Screening	Material	Polyester or PET tape
	Drain wire	7/0.2mm (nominal) TAC drain wire
	Overall screen	Aluminium/Polyester laminate. Aluminium facing in and in contact with the drain wire
	Coverage	100%
Sheath	Material:	5V-90 PVC
	Colour:	Black
	Nominal Diameter:	Refer to construction table
	Nominal Thickness:	Refer to construction table

Electrical Properties

Voltage Rating	110VAC, 150VDC
DCR	≤ 38.4 Ohms/km @ 20°C
Mutual Capacitance	< 250 pF/m
Inductance	≤ 1.1 μ H/m
Nom L/R ratio	15 μ H/ Ω

Mechanical Properties

Operating Temperature Range	-15 to 90°C
Min. Bend Radius (install)	18 x Diameter

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Construction Table

Part Number	Nos of Triads	Pack size ¹ (m)	Screen	Jacket Colour ²	Nom. Cable Diameter (mm)	Nom Jacket Thickness (mm)	Approx Weight (Kg/Km)
MCT7031S100-AW	1	100	Overall	Black	5.3	0.6	39
MCT7031S500-AW	1	500	Overall	Black	5.3	0.6	39
MCT7031S1000-AW	1	1000	Overall	Black	5.3	0.6	39
MCT7032S100-AW	2	100	Overall	Black	8.5	0.8	79
MCT7032S500-AW	2	500	Overall	Black	8.5	0.8	79
MCT7032S1000-AW	2	1000	Overall	Black	8.5	0.8	79
MCT7033S100-AW	3	100	Overall	Black	9.0	0.8	102
MCT7033S500-AW	3	500	Overall	Black	9.0	0.8	102
MCT7033S1000-AW	3	1000	Overall	Black	9.0	0.8	102
MCT7034S100-AW	4	100	Overall	Black	10.0	0.9	132
MCT7034S500-AW	4	500	Overall	Black	10.0	0.9	132
MCT7034S1000-AW	4	1000	Overall	Black	10.0	0.9	132
MCT7036S500-AW	6	500	Overall	Black	12.4	1.1	196
MCT7036S1000-AW	6	1000	Overall	Black	12.4	1.1	196
MCT7038S500-AW	8	500	Overall	Black	13.5	1.2	251
MCT7038S1000-AW	8	1000	Overall	Black	13.5	1.2	251
MCT70310S500-AW	10	500	Overall	Black	15.8	1.2	309
MCT70310S1000-AW	10	1000	Overall	Black	15.8	1.2	309
MCT70312S500-AW	12	500	Overall	Black	16.8	1.4	371
MCT70312S1000-AW	12	1000	Overall	Black	16.8	1.4	371

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances

¹ Other lengths available subject to negotiation. MoQ and lead time restrictions may apply

² Other colours available upon request. MoQ and lead time restrictions may apply

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