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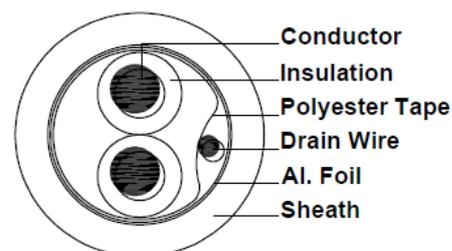
Part No: MCP703xxS-AW Series

Description	0.5mm ² Stranded PACW, V-90 PVC insulated, twinned, 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



1 Pair 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 For cables with 2 or more pairs 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 Pairs	Pack size ¹ (m)	Screen	Jacket Colour ²	Nom. Cable Diameter (mm)	Nom Jacket Thickness (mm)	Approx Weight (Kg/Km)
MCP7031S100-AW	1	100	Overall	Black	5.0	0.6	31.4
MCP7031S500-AW	1	500	Overall	Black	5.0	0.6	31.4
MCP7031S1000-AW	1	1000	Overall	Black	5.0	0.6	31.4
MCP7032S100-AW	2	100	Overall	Black	7.4	0.7	57.2
MCP7032S500-AW	2	500	Overall	Black	7.4	0.7	57.2
MCP7032S1000-AW	2	1000	Overall	Black	7.4	0.7	57.2
MCP7033S100-AW	3	100	Overall	Black	8.1	0.8	77.2
MCP7033S500-AW	3	500	Overall	Black	8.1	0.8	77.2
MCP7033S1000-AW	3	1000	Overall	Black	8.1	0.8	77.2
MCP7034S100-AW	4	100	Overall	Black	8.8	0.8	94.7
MCP7034S500-AW	4	500	Overall	Black	8.8	0.8	94.7
MCP7034S1000-AW	4	1000	Overall	Black	8.8	0.8	94.7
MCP7036S500-AW	6	500	Overall	Black	10.7	0.9	136.0
MCP7036S1000-AW	6	1000	Overall	Black	10.7	0.9	136.0
MCP7038S500-AW	8	500	Overall	Black	12.0	1.1	180.6
MCP7038S1000-AW	8	1000	Overall	Black	12.0	1.1	180.6
MCP70310S500-AW	10	500	Overall	Black	14.2	1.2	228.2
MCP70310S1000-AW	10	1000	Overall	Black	14.2	1.2	228.2
MCP70312S500-AW	12	500	Overall	Black	14.6	1.2	259.4
MCP70312S1000-AW	12	1000	Overall	Black	14.6	1.2	259.4
MCP70316S500-AW	16	500	Overall	Black	16.6	1.4	343.0
MCP70316S1000-AW	16	1000	Overall	Black	16.6	1.4	343.0
MCP70320S500-AW	20	500	Overall	Black	18.3	1.6	427.8
MCP70324S500-AW	24	500	Overall	Black	21.0	1.7	515.8
MCP70336S500-AW	36	500	Overall	Black	24.0	1.8	723.8
MCP70350S500-AW	50	500	Overall	Black	28.1	1.8	960.3

- 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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