

CABLE SPECIFICATION

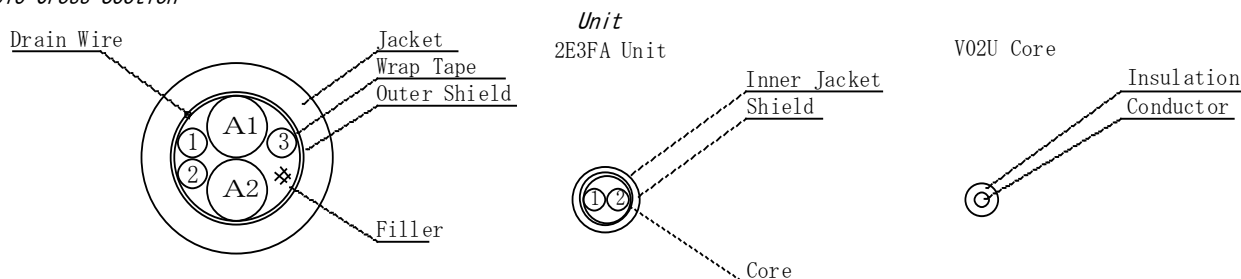
A2C3-SS 1/2



Model	A 2 C 3 - S S	SAA161E_1.9
Applications	RS-422 (Data) + Control Composite Cable for shorter distances use	
Description	Two (2) RS-422 (Data), Three (3) Control Channels	
Applicable Safety Standard	UL20002, 30V, 60°C	

Physical Characteristics		Dimensions	Specifications	
			2E3FA Unit x 2	V02U Core x 3
Conductor	Material		Tinned Copper	Tinned Copper
	Structure	mm/qty (mil/)	TA0. 127/ 7 (5.00/)	TA0. 16/11 (6.30/)
	Gage		28AWG	24AWG
Insulation	Nom. Cross Section Area	mm ² (mil□)	0.09 (139.5)	0.22 (341.0)
	Type		Formed-XLPE	PVC, Color:Blk, Brn, Red
	Thickness	mm (mil)	0.25 (9.84)	0.30 (11.81)
Pair/Quad Strand	Outer Diameter	mm (Inch)	0.88 (0.035)	1.24 (0.049)
	Pitch	mm (Inch)	<= 20.0 (<=0.79)	—
Shield	Type	mm/piece (mil/)	TA0. 10/37-47 (3.94)	—
	Thickness	mm (mil)	—	—
Inner Jacket	Coverage	%	>90	—
	Type		PVC, Color:Gry, Blk	—
	Overall Diameter	mm (Inch)	2.5 (0.10)	—
Wrap Tape	Thickness	mm (mil)	0.05 (1.97)	Paper Tape
Drain Wire	Structure	mm/qty (mil/)	TA0. 16/11 (6.30/)	
	Gage		24AWG	
Outer Shield	Type	mm/piece (mil/)	TA0. 14/96-100 (5.51)	Filler Materials : Jute
	Coverage	%	>91	
Jacket	Type		PVC	Color:Blk
	Thickness	mm (mil)	0.9 (35.43)	
	Overall Diameter	mm (Inch)	7.0 (0.28)	Brittle Temp. -20°C (-4°F)
	Marking		E***** 9 20002 AWM VW-1 CANARE CABLE <Year code>	A2C3-SS MADE IN JAPAN
Weight		kg/100m (lbs/1000ft)	7.2 (48.4)	

Cable Cross Section



Channel Color Code : Insulator<ex. RED·WHT> & Inner Jacket <Dot/Line Marker, ex. A1>

A 1	A 2	1	2	3
BLK/RED·WHT	GRY/BLU·WHT	BLK	BRN	RED

Electrical Characteristics (Nominal)		Dimensions	Specifications	
			2E3FA Unit x 2	V02U Core x 3
D. C. Resistance	Conductor	$\Omega/100m$ (/1000ft)	<= 25.3 (<=77.1)	<= 9.0 (<=27.4)
	Shield	$\Omega/100m$ (/1000ft)	<= 5.8 (<=17.7)	—
Char. Impedance		Ω at TDR	110±15	—
Voltage Withstanding	Min. Breakdown Voltage.	VAC·1min	500 (500)	500 (500)
Insulation Resistance	Between Conductors	M Ω ·km (·3000ft)	>= 1000 (>= 1000)	>= 10 (>=10)
D. C. Resistance	Outer Shield	$\Omega/100m$ (/1000ft)	1.3 (4.0)	

Mechanical Characteristics (Nominal)		Dimensions	Specifications	Remarks
Tensile Strength	Jacket	MPa	>= 11.0	
		%	>= 220	

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Environment Characteristics	Specifications	Remarks
Migration	No deformity, discoloration or other flaws must be found on ABS resin plates during visual inspection.	Test conditions: Temperature: 50°C ±1°C Duration: 24 hours ±1 hour (humidity not designated) Load: 500g ±25g
Flame Retardance	A vertical specimen of an insulated conductor shall not flame longer than 60s following five 15s applications of flame.	The VW-1 flame test specified in UL1581.

Note: Testing must be performed under standard conditions set down in "JIS-C0010 General Environmental Testing Rules(Electric/Electronics)."

Standard Conditions: Unless otherwise specified, all tests and measurements should be performed within a normal temperature range of 15-35°C, a relative humidity of 25-75%, and an atmospheric pressure of 86-106kPa.