

CABLE SPECIFICATION

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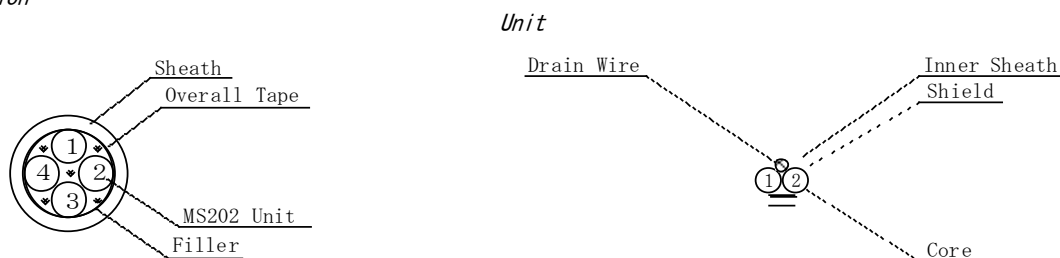
Model MS 2 0 2 - 4 P SAA313E Ver1.3
Applications Multi-Channel Twisted-Pairs Shield Cable.



Canare Electric Co., Ltd.

Physical Characteristics		Unit	Standard Value		Note
No. of Cond. Conductor	Construction	qty/mm (/mil)	8		4 Pairs
			1/ TA0.18 (7.09/)		Composite Conductor
	Nom. Cross Section Area	mm ² (mil ²)	30/ TA0.08 (3.15/)		Tinned Annealed Copper
	Outer Diameter	mm (mil)	0.18 (279.0)		25AWG
Insulation	Type		0.54 (21.26)		
	Thickness	mm (mil)	XLPE		Crosslinked polyethylene
	Outer Diameter	mm (Inch)	0.22 (8.66)		Color: See Channel Color Code
Pair/Quad Strand	Pitch	mm (Inch)	1.00 (0.039)		
	Thickness	mm (mil)	<= 25.0 (<=0.98)		
Overall Tape	Type		—		
	Thickness	mm (mil)	58±3/ TA0.10 (/3.94)		Drain Wire : 7/TA0.18mm (/7.09mil)
Shield (Spiral)	Type	end/mm (/mil)	—		25AWG/ Tinned Annealed Copper
	Thickness	mm (mil)	>91		
Inner Sheath	Coverage	%	PVC		Color:Black
	Type		0.3 (11.81)		
	Thickness	mm (mil)	2.8 (0.11)		
Overall Tape Sheath	Overall Diameter	mm (Inch)	0.05 (1.97)		Paper Tape
	Type		PVC		Filler Materials : Cotton
	Thickness	mm (mil)	0.9 (35.43)		Color:Black
	Overall Diameter	mm (Inch)	8.2 (0.32)		Brittle Temp. -30°C(-22°F)
	Marking		α-Fi series MS202-4P CANARE <Year code> MADE IN JAPAN		
Weight		kg/100m(lbs/1000ft)	9.2 (61.8)		

Cable Cross Section



Channel Color Code : Insulator<Color Code>Wht> & Inner Sheath_Black <Spiral Marker>

1	2	3	4
BRN	RED	ORN	YEL

Electrical Characteristics (Nominal)		Unit	Standard Value		Note
Rated Voltage		V	AC 60		
Operating temperature		°C (F)	-30~+60 (-22~+140)		
Rated Current			—		
D. C. Resistance	Conductor	Ω/100m (/1000ft)	<= 11.4 (<=34.7)		
	Shield	Ω/100m (/1000ft)	<= 3.3 (<=10.0)		
Voltage Withstanding Min. Breakdown Voltage.		VAC·1min	500 (500)		
Insulation Resistance Between Conductors		MΩ·km (·3000ft)	>= 1000 (>=1000)		

Mechanical Characteristics (Nominal)		Unit	Standard Value		Note
Tensile Strength	Sheath	MPa	>= 11.0		
		%	>= 220		

Environment Characteristics	Specifications	Note
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.
	Flame must extinguish naturally within 60 seconds.	Perform inclination test according to JIS C 3005.

Note: Testing must be performed under standard conditions set down in "JIS C 60068-1 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.