

CABLE SPECIFICATION

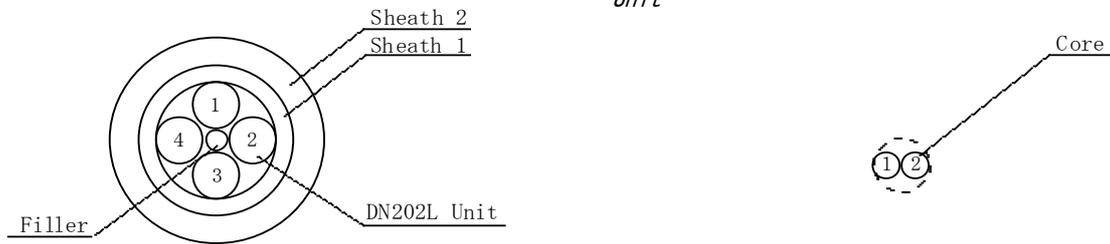
Model R J C 5 E - 4 P - W J SAA293E Ver1.1
 Applications Cat.5e Ethernet Cable



Canare Electric Co., Ltd.

Physical Characteristics		Unit	Standard Value		Note
No. of Cond. Conductor	Construction	qty/mm (/mil)	8		4 Pairs
	Nom. Cross Section Area	mm ² (mil ²)	1/A0.53 (/20.87)		Annealed Copper
	Outer Diameter	mm (mil)	0.22 (341.0)		24AWG
Insulation	Outer Diameter	mm (mil)	0.53 (20.87)		
	Type		PE		
	Thickness	mm (mil)	0.19 (7.48)		Color: See Pair Color Code chart
	Outer Diameter	mm (Inch)	0.90 (0.035)		
Sheath1	Type		PVC		Color:Blk
	Thickness	mm (mil)	0.6 (23.62)		
	Overall Diameter	mm (inch)	5.4 (0.21)		
Sheath2	Type		PVC		Color:Blk
	Thickness	mm (mil)	1.0 (39.37)		
	Overall Diameter	mm (Inch)	7.4 (0.29)		
	Marking		Cat5e Network Cable RJ45E-4P-WJ CANARE <Year Code> MADE IN JAPAN		
Weight		kg/100m (lbs/1000ft)	5.4 (36.3)		

Cable Cross Section



Pair Color Code chart:

	Pair 1	Pair 2	Pair 3	Pair 4
Conductor 1	Wht/Blu	Wht/Orn	Wht/Grn	Wht/Brn
Conductor 2	Blu	Orn	Grn	Brn

Electrical Characteristics (Nominal)		Unit	Standard Value		Note
Rated Voltage		V	AC 30		
Rated Temperature		°C	-15 to 60		
D. C. Resistance	Conductor	Ω /100m (/1000ft)	≤ 8.8 (≤ 26.8)		Max. Attenuation dB/100m (/100ft)
Voltage Proof	Min. Breakdown Voltage.	V·1min	AC700		
Insulation Resistance	Between Conductors	M Ω ·km (·3000ft)	$>= 1000$ ($>= 1000$)		1MHz 2.0 (0.6)
Char. Impedance	Char. Impedance	Ω at 1-100MHz	100±15		4MHz 4.1 (1.2)
			—		8MHz 5.8 (1.8)
			—		10MHz 6.5 (2.0)
			—		16MHz 8.2 (2.5)
			—		20MHz 9.3 (2.8)
			—		25MHz 10.4 (3.2)
			—		31.25MHz 11.7 (3.6)
Attenuation		dB/100m (/100ft)	\rightarrow		62.5MHz 17.0 (5.2)
					100MHz 22.0 (6.7)

Mechanical Characteristics (Nominal)		Unit	Standard Value		Note
Tension Tolerance		N (lbf)	≤ 120.0 (≤ 27.0)		
Bending Radius		-	$\geq 4x$ Cable OD		

Environment Characteristics	Specifications	Note
Flame Retardance	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.