

# CABLE SPECIFICATION

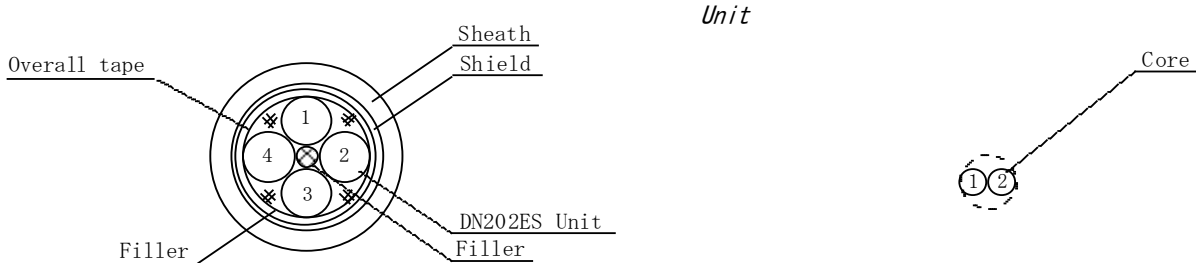
Model RJC5ES-4P-BS SAA292E Ver1.0  
 Applications Cat.5e Ethernet Cable



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 <sup>2</sup> (mil <sup>2</sup> )	7/A0.20 (/7.87)		Annealed Copper
	Outer Diameter	mm (/mil)	0.22 (341.0)		24AWG
	Outer Diameter	mm (/mil)	0.60 (23.62)		
Insulation	Type		XLPE		XLPE: Crosslinked Polyethylene
	Thickness	mm (/mil)	0.20 (7.87)		Color: See Pair Color Code chart
	Outer Diameter	mm (/Inch)	1.00 (0.039)		
	Outer Diameter	mm (/Inch)	0.16 (6.30)		Nonwoven fabric Tape
Overall tape Shield	Type	mm/end/carr (mil/)	TA0.10/10/16 (3.94)		Tinned Annealed Copper
	Thickness	mm (/mil)	-		
	Coverage	%	>90		
Sheath	Type		PVC		
	Thickness	mm (/mil)	0.7 (27.56)		
	Outer Diameter	mm (/Inch)	6.7 (0.26)		Color: Blk
	Marking		Cat5e Network Cable RJC5ES-4P-BS CANARE <Year Code> MADE IN JAPAN		
Weight		kg/100m (lbs/1000ft)	6.1 (41.0)		

## 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	Specified Value		Note
Rated Voltage		V	AC 30		
Rated Temperature		°C	-20 to 60		
D. C. Resistance	Conductor	$\Omega/100m$ (/1000ft)	$\leq 9.5$ ( $\leq 28.8$ )		Max. Attenuation dB/ 50m (/100ft)
	Shield	$\Omega/100m$ (/1000ft)	$\leq 2.3$ ( $\leq 7.1$ )		
Voltage Proof	Min. Breakdown Voltage.	V·1min	AC350 or DC500		1MHz 2.0 (1.2)
Insulation Resistance	Between Conductors	$M\Omega \cdot km$ (/3000ft)	$\geq 1000$ ( $\geq 1000$ )		4MHz 4.1 (2.5)
Char. Impedance		$\Omega$ at 1-100MHz	100±15		8MHz 5.8 (3.5)
Attenuation		dB/ 50m (/100ft)	→		10MHz 6.5 (4.0)
					16MHz 8.2 (5.0)
					20MHz 9.3 (5.7)
					25MHz 10.4 (6.3)
					31.25MHz 11.7 (7.1)
					62.5MHz 17.0 (10.4)
					100MHz 22.0 (13.4)

Mechanical Characteristics (Nominal)		Unit	Specified Value		Note
Tension Tolerance		N (/lbf)	$\leq 120$ ( $\leq 27.0$ )		
Bend Radius		-	$\geq 4 \times$ Cable OD		

Environment Characteristics	Specifications	Note
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 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.