

# Product Specification

**Part No.:**  
2CX0.5SQ PVC Jacket Cable

**Cross Section**

**Marking**

BELDEN E357312-S 2C0.5SQMM SHIELDED AWM STYLE 2517 105C 300V  
VW-1 - - - c AWM I/II A/B 105C 300V FT1 ROHS

Description	
Rated Voltage (V)	300/
Rated Temperature (°C)	Fixed -30~105
Flame Test:	VW-1

**Application**  
For general purpose control cable

**Reference Standard**  
UL758, UL1581 & CSA C22.2 No.210

Construction	
<b>2Cores</b>	
<b>Conductor</b>	<b>Stranded Bare copper</b>
Cross Section(mm <sup>2</sup> )	0.50
Construction (mm)	16/0.2
Stranded Dia. (mm)	0.92
<b>Insulation</b>	<b>PVC</b>
Min. Thickness (mm)	0.33
Nom. Thickness (mm)	0.44
Insulation Dia. (±0.08mm)	1.80
<b>Assembly</b>	<b>2C</b>
Direction	S
<b>Inner Jacket</b>	<b>PVC</b>
Min. Thickness (mm)	0.38
Nom. Thickness (mm)	0.50
Dia. (±0.20mm)	4.70
<b>Shield</b>	<b>Tinned Copper</b>
Coverage(%)	>=80%
<b>Jacket</b>	<b>PVC</b>
Min. Thickness (mm)	0.61
Nom. Thickness (mm)	0.80
Dia. (±0.25mm)	6.80

Color	
<b>Insulation</b>	1~2.blue core 1~2 marked with number 1~2
<b>Inner-jacket</b>	gray
<b>Jacket</b>	Per request

Performance	
<b>Electrical Characteristics:</b>	
Max. Conductor DC Resistance at 20°C (ohms/km)	39.0
Dielectric Strength AC (kV/1min)	4.0

Mechanical Characteristics:			
Test Object		Insulation	Jacket
Test Material		PVC	PVC
Before	Tensile Strength (Mpa)	≥ 10.3	≥ 10.3
Aging	Elongation (%)	≥ 100	≥ 100
Aging Condition		136±2°C X 168 hrs	
After	Tensile Strength (Mpa)	≥ 70% of original	≥ 70% of original
Aging	Elongation (%)	≥ 65% of original	≥ 65% of original
Minimum Bending radius		Flexing	20XOD
		Fixed	10XOD

Sample Record	
Sample No. :	
Original spec no.:SZ-B2517-1035	Rev.: 0
Ref. spec No. : SK-B2517-779	Rev.: 0

Revision History	

Prepared by:	ADISON	2-Jun-16	Table No.:T100	Rev.: 0
Approved by:	CICICHENG	2-Jun-16		Page 1 of 1