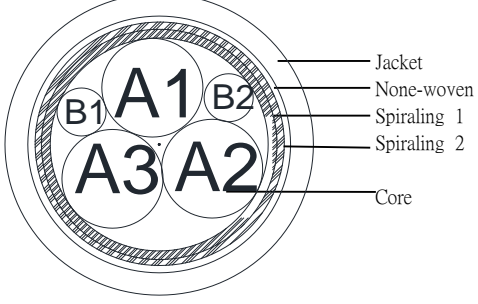



# Product Specification



<b>Part No.:</b> 	<b>Color</b> Insulation A:1.White 2.Black 3.Red B:1.Yellow 2.Green																																																									
<b>Cross Section</b> 	<b>Jacket</b> Per request																																																									
<b>Marking</b> BELDEN E357312-S  AWM STYLE 20549 80C 300V FT2 ROHS	<b>Performance</b> <b>Electrical Characteristics(20°C)</b> Max Conductor DC Resistance ( $\Omega$ /km) A.94.2 B.600																																																									
<b>Description</b> Rating Voltage (V) 300 Rating Temperature (°C) 80 Bending radius 12XOD Flame test FT2 <b>Application</b> Internal wiring of electronic equipment and appliances <b>Reference Standard</b> UL758, UL1581 & CSA C22.2 No. 210.2	<b>Mechanical Characteristics:</b> <b>Test Object</b> Test Material PU Before Tensile Strength (Mpa) $\geq 10.3$ Aging Elongation (%) $\geq 100$ Aging Condition (°C) 113±2°C X 168 hrs After Tensile Strength (Mpa) $\geq 70\%$ of original Aging Elongation (%) $\geq 65\%$ of original																																																									
<b>Construction</b> <table border="1"> <thead> <tr> <th>5C</th> <th>3C</th> <th>2C</th> </tr> </thead> <tbody> <tr> <td><b>Conductor</b></td> <td colspan="2"><b>Stranded Bare Copper</b></td> </tr> <tr> <td>AWG</td> <td>24</td> <td>32</td> </tr> <tr> <td>Structure(mm)</td> <td>19/0.12</td> <td>7/0.08</td> </tr> <tr> <td>Conductor Dia.(mm)</td> <td>0.60</td> <td>0.24</td> </tr> <tr> <td><b>Insulation</b></td> <td colspan="2"><b>HDPE</b></td> </tr> <tr> <td>Min Thickness(mm)</td> <td>0.26</td> <td>0.18</td> </tr> <tr> <td>Normal Thickness (mm)</td> <td>0.31</td> <td>0.21</td> </tr> <tr> <td>Insulation Dia (<math>\pm 0.05</math>mm)</td> <td>1.25</td> <td>0.66</td> </tr> <tr> <td><b>Cabling</b></td> <td colspan="2">3C+2C</td> </tr> <tr> <td><b>Spiraling 1</b></td> <td colspan="2"><b>Tinned Copper</b></td> </tr> <tr> <td>Coverage(%)</td> <td colspan="2"><math>\geq 90\%</math></td> </tr> <tr> <td><b>Spiraling 2</b></td> <td colspan="2"><b>Tinned Copper</b></td> </tr> <tr> <td>Coverage(%)</td> <td colspan="2"><math>\geq 90\%</math></td> </tr> <tr> <td>None-woven (overlapping)</td> <td colspan="2"><math>\geq 25\%</math></td> </tr> <tr> <td><b>Jacket</b></td> <td colspan="2">PU</td> </tr> <tr> <td>Min Thickness(mm)</td> <td colspan="2">0.33</td> </tr> <tr> <td>Normal Thickness(mm)</td> <td colspan="2">0.38</td> </tr> <tr> <td>Diameter (<math>\pm 0.15</math>mm)</td> <td colspan="2">4.50</td> </tr> </tbody> </table>	5C	3C	2C	<b>Conductor</b>	<b>Stranded Bare Copper</b>		AWG	24	32	Structure(mm)	19/0.12	7/0.08	Conductor Dia.(mm)	0.60	0.24	<b>Insulation</b>	<b>HDPE</b>		Min Thickness(mm)	0.26	0.18	Normal Thickness (mm)	0.31	0.21	Insulation Dia ( $\pm 0.05$ mm)	1.25	0.66	<b>Cabling</b>	3C+2C		<b>Spiraling 1</b>	<b>Tinned Copper</b>		Coverage(%)	$\geq 90\%$		<b>Spiraling 2</b>	<b>Tinned Copper</b>		Coverage(%)	$\geq 90\%$		None-woven (overlapping)	$\geq 25\%$		<b>Jacket</b>	PU		Min Thickness(mm)	0.33		Normal Thickness(mm)	0.38		Diameter ( $\pm 0.15$ mm)	4.50		<b>Sample Record</b> Sample No. : Original spec no. SZ-B20549-381 Rev.: 0 Ref. spec No. : Rev.:
5C	3C	2C																																																								
<b>Conductor</b>	<b>Stranded Bare Copper</b>																																																									
AWG	24	32																																																								
Structure(mm)	19/0.12	7/0.08																																																								
Conductor Dia.(mm)	0.60	0.24																																																								
<b>Insulation</b>	<b>HDPE</b>																																																									
Min Thickness(mm)	0.26	0.18																																																								
Normal Thickness (mm)	0.31	0.21																																																								
Insulation Dia ( $\pm 0.05$ mm)	1.25	0.66																																																								
<b>Cabling</b>	3C+2C																																																									
<b>Spiraling 1</b>	<b>Tinned Copper</b>																																																									
Coverage(%)	$\geq 90\%$																																																									
<b>Spiraling 2</b>	<b>Tinned Copper</b>																																																									
Coverage(%)	$\geq 90\%$																																																									
None-woven (overlapping)	$\geq 25\%$																																																									
<b>Jacket</b>	PU																																																									
Min Thickness(mm)	0.33																																																									
Normal Thickness(mm)	0.38																																																									
Diameter ( $\pm 0.15$ mm)	4.50																																																									
	<b>Revision History</b> Prepared by: Zuxuxan Chen 2017/8/9 Table No.:T100 Rev.: 0 Approved by: CICHENG 2017/8/9 Page 1 of 1																																																									