





P/N: 3239-XX-1-0500-0XX-1-TS

Conductor		Insulation		Electrical Character		
Solid Diameter or Stranding Diameter AWG (mm <sup>2</sup> )	Composition No/Diameter of Component Wire (mm)	Insulation Thickness (mm)	Overall Diameter (mm)	Test / Voltage (V/30 min)	Sparking Test 0.8 Sec.	Maximum Conductor Resistance Ω/km 20°C
24AWG (0.22mm <sup>2</sup> )	11/0.16 Tinned Strands	0.65	1.90(±0.15)	6000-DC	3000AC	96.5
22AWG (0.33mm <sup>2</sup> )	17/0.16 Tinned Strands	0.65	2.05(±0.15)	6000-DC	3000AC	59.4
20AWG (0.53mm <sup>2</sup> )	21/0.18 Tinned Strands	0.65	2.25(±0.15)	6000-DC	3000AC	37.4
18AWG (0.84mm <sup>2</sup> )	34/0.18 Tinned Strands	0.65	2.5(±0.15)	6000-DC	3000AC	23.5
16AWG (1.25mm <sup>2</sup> )	26/0.254 Tinned Strands	0.65	2.8(±0.15)	6000-DC	3000AC	14.6
14AWG (2.1mm <sup>2</sup> )	37/0.254 Tinned Strands	0.65	3.3(±0.2)	6000-DC	3000AC	9.15
12AWG (3.39mm <sup>2</sup> )	67/0.254 Tinned Strands	0.75	4.0(±0.2)	6000-DC	3000AC	5.75
10AWG (5.3mm <sup>2</sup> )	105/0.254 Tinned Strands	0.85	4.8(±0.2)	6000-DC	3000AC	3.55

1. Scope: Concerning on UL758 the size from 24AWG to 10AWG working temperature 150°C UL authorized 3KV-DC to 30KV-DC, this specification is only for 3KV-DC

2. Conductor: Material of Conductor: Tinned Copper  
Composition of conductor for sizes within the UL 758 specified being showed as Table.
3. Insulation Material: Compound Silicone Rubber.  
Average thickness of insulation being showed as Table  
Minimum thickness of insulation at any point: Omission
4. Surface Printing:  
E205197  AWM STYLE 3239 3KV-DC 150°C AWG  TYPE TV-3 SILICONE RUBBER 150°C AWG  
VW-1 FT1 EASSAN
5. Electrical and Physical character:
  - Unaged: Elongation:250%  
Tensile Strength: 1200lbf/in<sup>2</sup>
  - After aged: Test specimens being kept in an air oven with 158°C(±1°C) for 60days  
Elongation:25% result of unaged test specimen  
Tensile Strength: 60% result of the unaged test specimen.
  - Sparking test: 3KV AC/0.8 Second
  - Resistant to: Oil, extremes of hot & cold, flexing, high Voltage spikes
  - Flame Test: VW-1 & FT1 : Conforming to UL758 method to test
6. Electronical Voltage Test: 3 KV DC test / 1 minutes, no break down.
7. Dielectric Voltage-withstand test of insulation: 7000 VDC/min
8. Environmental Approvals: Conforms all RoHS directives as laid out in (RoHS) Directive 2011/65/EU, 2015/863/EU Annex II, without Exemption.
9. Packing: 500ft per reel, Tolerance -1%
10. Country of origin: Taiwan

P/N's & COLORS				
3239-XX-1-0500-001-1-TS BLACK	3239-XX-1-0500-002-1-TS WHITE	3239-XX-1-0500-003-1-TS YELLOW	3239-XX-1-0500-004-1-TS RED	3239-XX-1-0500-005-1-TS BLUE
3239-XX-1-0500-006-1-TS BROWN	3239-XX-1-0500-007-1-TS GREEN	3239-XX-1-0500-008-1-TS ORANGE	3239-XX-1-0500-011-1-TS GREEN + YELLOW	