

Chandler, 3-23-2020

## UL3239 Silicon Stranded Hook-up-Wire Change Notice

In 2019 United Laboratories (UL) changed the specifications (Insulation Thickness) for all 3239-wire going forward.

The raw materials and manufacturing processes have received approval and are certified by UL as compliant. The approval involved an Aging Test, Bend Test and Flame Test. These 3 tests are conducted in real time with the Aging Test alone requiring 3 months duration for approval.

All existing inventory of 3239 wire is compliant with previous UL specifications and carries UL's certification. Existing inventory with Date Codes prior to 20/12 can be used in all product designs that specify 3239 wire.

All existing designs that use the new UL 3239 certified wire will not require design changes, unless the increase in the wire O.D. across all AWG's has an impact on the design.

This change is essentially an increase in the thickness of the silicon insulation from 0.55mm to 0.635mm. The Overall Diameter (O.D.) changed, due to the increase in insulation thickness, should be considered as it applies to existing designs for wire through-hole diameters, gromet IDs and wire housing areas to accommodate the increased overall wire diameters.



Please see below the quick guide references for all AWG's:

- Insulation Thickness w/ tolerance and Overall Diameter (O.D.) w/ tolerance PRIOR to Date Code 20/12
- Insulation Thickness w/ tolerance and Overall Diameter (O.D.) w/ tolerance AFTER to Date Code 20/12

3239#16....TS 26/0.254	0.55mm +/- 0.055mm	O.D. 2.40mm +/- 0.15mm	Prior to DC 20/12
3239#16....TS 26/0.254	0.635mm +/- 0.065mm	O.D. 2.80mm +/- 0.15mm	After DC 20/12
3239#18 TS 34/0.18	0.55mm +/- 0.055mm	O.D. 2.10mm +/- 0.10mm	Prior to DC 20/12
3239#18 TS 34/0.18	0.635mm +/- 0.065mm	O.D. 2.50mm +/- 0.10mm	After DC 20/12
3239#20 TS 21/0.18	0.55mm +/- 0.055mm	O.D. 1.85mm +/- 0.10mm	Prior to DC 20/12
3239#20 TS 21/0.18	0.635mm +/- 0.065mm	O.D. 2.25mm +/- 0.10mm	After DC 20/12
3239#22 TS 17/0.16	0.55mm +/- 0.055mm	O.D. 1.65mm +/- 0.10mm	Prior to DC 20/12
3239#22 TS 17/0.16	0.635mm +/- 0.065mm	O.D. 2.05mm +/- 0.10mm	After DC 20/12
3239#24 TS 11/0.16	0.55mm +/- 0.055mm	O.D. 1.55mm +/- 0.10mm	Prior to DC 20/12
3239#24 TS 11/0.16	0.635mm +/- 0.065mm	O.D. 1.90mm +/- 0.10mm	After DC 20/12

Regards,

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