
ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 3590/9 – 3590/64

Issue: 5

Spec Number: C3590-9

Issue Date: 12/14/2010

Page 1 of 3 Pages

Effective Date: 12/14/2010

A. Construction

- 1) Conductor
 - a) Material Tinned Copper, Per ASTM B-33
 - b) AWG, Stranding 28, 7/36
- 2) Insulation
 - a) Material Lead Free Polyvinyl Chloride, Extruded
 - b) Nominal Wall Thickness 0.010
 - c) Diameter 0.035 +/- 0.002
 - d) Color Gray, Red Polarity Stripe on Leading Edge
- 3) Shield
 - a) Material Aluminum/Polyester
Except /26: Aluminum/Mylar
 - b) Overlap 25%, Minimum
 - c) Drain Wire 2 x 28 AWG (7/36) Tinned Copper
- 4) Assembly
 - a) Number of Conductors See Table 1
 - b) Configuration Flat Cable
 - c) Center to Center Spacing 0.050 +/- 0.002
 - d) Core Width See Table 1
 - e) Core Thickness 0.035 +/- 0.004
- 5) Jacket
 - a) Material Lead Free Polyvinyl Chloride, Extruded
 - b) Jacket Width See Table 1
 - c) Overall Thickness 0.115 +/- 0.015
 - d) Min. Point Thickness 0.007
 - e) Color Gray
 - f) Surface Print Per Alpha Standard SP-001
 - g) Print Legend ALPHA - * (UL) CL2 105C 28 AWG

* - Vendor Designation

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are **not permitted** without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product.

If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production**. Be advised that **product legend information and product label information must be in concert**; both are the responsibility of the vendor.

It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein.

All information contained herein is confidential. It's use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire Company. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 3590/9 – 3590/64

Issue: 5

Spec Number: C3590-9

Issue Date: 12/14/2010

Page 2 of 3 Pages

Effective Date: 12/14/2010

Table 1

Part Number	Conductors	Core Width (A)	Jacket Width (C)
3590/9	9	0.450 +/- 0.010	0.520 +/- 0.020
3590/10	10	0.500 +/- 0.010	0.570 +/- 0.020
3590/14	14	0.700 +/- 0.010	0.770 +/- 0.020
3590/15	15	0.750 +/- 0.010	0.820 +/- 0.020
3590/16	16	0.800 +/- 0.010	0.870 +/- 0.020
3590/20	20	1.000 +/- 0.015	1.070 +/- 0.030
3590/24	24	1.200 +/- 0.015	1.270 +/- 0.030
3590/25	25	1.250 +/- 0.015	1.320 +/- 0.030
3590/26	26	1.300 +/- 0.015	1.370 +/- 0.030
3590/34	34	1.700 +/- 0.020	1.770 +/- 0.035
3590/37	37	1.850 +/- 0.020	1.950 +/- 0.035
3590/40	40	2.000 +/- 0.020	2.070 +/- 0.035
3590/50	50	2.500 +/- 0.020	2.570 +/- 0.035
3590/60	60	3.000 +/- 0.020	3.070 +/- 0.035

B. Industry Approvals and Ratings

- | | |
|---|--|
| <ul style="list-style-type: none"> 1) UL 2) Voltage Rating 3) Temperature Rating 4) Conductor DC Resistance 5) Voltage Withstand 6) Insulation Resistance 7) Impedance 8) Capacitance 9) Propagation Delay | <ul style="list-style-type: none"> UL Standard 13, Type CL2 VW-1 150 Volts 105°C 67.5 Ohms/1000 ft @ 20C, Nominal 1500 Volts RMS, Minimum 300 Meg Ohms/1000 ft, Minimum 70 Ohms, Nominal 20 pf/ft., Nominal 1.45 ns/ft., Nominal |
|---|--|

C. Packaging Requirements

- | | |
|--|--|
| <ul style="list-style-type: none"> 1) Alpha Standard 2) Standard Package | <ul style="list-style-type: none"> PS-004, Latest Revision 100 feet (Max. 2 of lengths, 25 ft. Min Length) |
|--|--|

D. Environmental

- | | |
|---|---|
| <ul style="list-style-type: none"> 1) EU Directive 2002/95/EC(RoHS): | <p>All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment.</p> |
|---|---|

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are **not permitted** without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product. If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production**. Be advised that **product legend information and product label information must be in concert**; both are the responsibility of the vendor. It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein. All information contained herein is confidential. It's use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire Company. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.

ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 3590/9 – 3590/64

Issue: 5

Spec Number: C3590-9

Issue Date: 12/14/2010

Page 3 of 3 Pages

Effective Date: 12/14/2010

2) California Proposition 65

All materials used in the manufacture of this part must contain no more than 300ppm of lead and meet all other chemical requirements of California Proposition 65.

This specification outlines the requirements for the product(s) described herein. Deviations from this specification are **not permitted** without the written authorization of the Alpha Wire Engineering Department. All finished products will be inspected to the specification and noncompliance or unauthorized deviations will be cause for rejection and return of product. If vendor certifying agency requirements are in conflict with this document, **it is incumbent upon the vendor to notify the Alpha Wire Engineering Department** and mark up differences on this document and submit them for **review and approval prior to any production**. Be advised that **product legend information and product label information must be in concert**; both are the responsibility of the vendor. It is the **responsibility of the vendor** to insure that this product meets the requirements of subservient certifying agency documents even though they are not directly noted herein. All information contained herein is confidential. It's use is restricted to authorized Alpha Wire Company personnel or authorized vendors of the Alpha Wire Company. Under no circumstances shall this document be duplicated in any form or shown to/discussed with unauthorized personnel without the expressed written consent of the Alpha Wire Engineering Department.