
ALPHA WIRE COMPANY
CUSTOMER PRODUCT SPECIFICATION

Part Numbers: 3583/9 – 3583/64

Issue: 3

Spec Number: C3583-9

Issue Date: 4/29/2004

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Effective Date: 5/28/2004

A. Construction

1) Conductor

- a) Material Tinned Copper, Per ASTM B-33
- b) AWG, Stranding 28, 7/36

2) Insulation

- a) Material SR-PVC, Extruded
- b) Min. Avg. Wall Thickness 0.005
- c) Min. Point Thickness 0.004
- d) Color Brown, Red, Orange, Yellow, Green, Blue, Violet, Gray, White, Black and repeat.

3) Covering

- a) Material PVC, Extruded
- b) Min. Point Thickness 0.003
- c) Color Clear
- d) Diameter 0.036, -0.001/+ 0.002

4) Assembly

- a) Number of Conductors See Table 1
- b) Configuration Flat Cable
- c) Center to Center Spacing 0.050 +/- 0.003
- d) Width See Table 1
- e) Span See Table 1
- f) Surface Print Per Alpha Standard SP-001
- g) Print Legend ALPHA - *

* - Factory Designation

Part Number	Conductors	Width (W)	Span (S)
3583/9	9	.450 +/- .010	.400 +/- .006
3583/10	10	.500 +/- .010	.450 +/- .006
3583/14	14	.700 +/- .010	.650 +/- .006
3583/15	15	.750 +/- .010	.700 +/- .006
3583/16	16	.800 +/- .010	.750 +/- .008
3583/20	20	1.000 +/- .010	.950 +/- .008
3583/24	24	1.200 +/- .010	1.150 +/- .008
3583/25	25	1.250 +/- .010	1.200 +/- .008
3583/26	26	1.300 +/- .010	1.250 +/- .008
3583/34	34	1.700 +/- .012	1.650 +/- .008
3583/37	37	1.850 +/- .012	1.800 +/- .010
3583/40	40	2.000 +/- .012	1.950 +/- .011
3583/50	50	2.500 +/- .016	2.450 +/- .011
3583/60	60	3.000 +/- .016	2.950 +/- .011
3583/64	64	3.200 +/- .013	3.150 +/- .011

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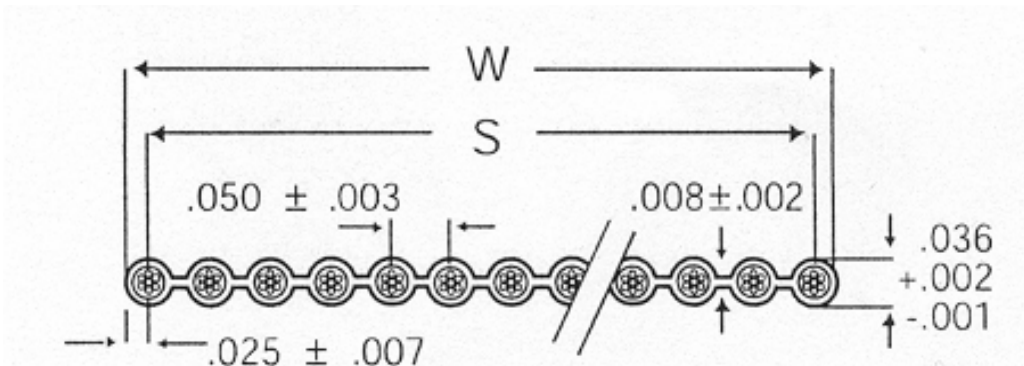
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B. Industry Approvals and Ratings

- | | |
|------------------------------|--|
| 1) UL | UL Standard 758, AWM Style 20932 |
| | VW-1 |
| 2) Voltage Rating | 300 Volts |
| 3) Temperature Rating | 105°C |
| 4) Conductor Unbalance | 5% Maximum |
| 5) Voltage Withstand | 1500 Volts RMS, Minimum |
| 6) Impedance | 98 Ω , Nominal (G-S-G) Single Ended |
| | 135 Ω , Nominal (G-S) Differential |
| 7) Capacitance @ 1KHz | 14.0 pf/ft., Nominal (G-S-G) |
| | 7.5 pf/ft., Nominal (G-S) |
| 8) Propagation Delay | 1.45 ns/ft., Nominal |
| 9) Crosstalk (10 ft. sample) | 3.8% Near End |
| @ 10ns Rise Time Pulse | 2.0% Far End |

C. Packaging Requirements

- | | |
|---------------------|--|
| 1) Standard Package | 100 feet (Max. 2 of lengths, 25 ft. Min. Length) |
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