

# 3C<sup>®</sup> color coded planar cable — 135 series

- Fast, low-cost mass termination.
- Precise spacing for controlled electrical characteristics.
- Color coded for easy identification.
- Double contour allows termination from either side of cable.
- Easy conductor separation for circuit routing.
- UL recognized 
- CSA certified, available

## description

3C Controlled Characteristics Cable is ideal for applications in digital and analog signal transmission. 3C color-coded cables are designed for mass-termination techniques including Spectra-Strip IDC connectors. With conductor centers the same as the contact centers of the connector, separation and stripping of individual conductors is completely eliminated. The color coding allows easy circuit tracing and routing.

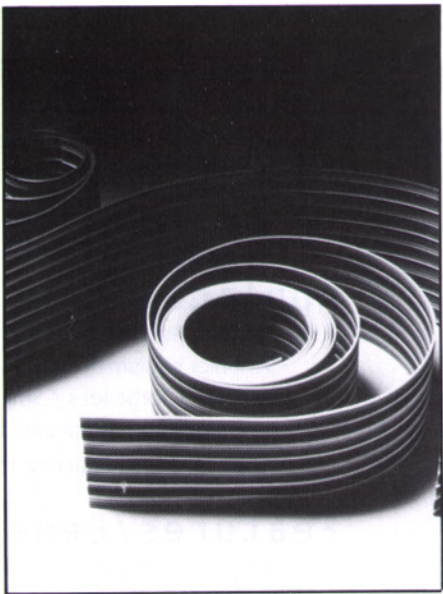
Spectra-Strip 3C color-coded cable consists of stranded round conductors preinsulated with color-coded PVC and laminated on specific centers between layers of clear PVC film to form a planar cable. 3C cable is available in 100-foot putups, packaged in dispenser boxes.

Spectra-Strip has the ability to custom design a ribbon cable for your exact needs. We can provide you with exact electrical and mechanical characteristics by varying the conductor spacing and cable insulation. For custom designs, please consult the Spectra-Strip factory.

## order information

Series 843-135-2801 28 AWG, 7/36 .050" centers

| Part Number      | No. Cond. | Width 'A' |         | Span 'B'   |              |
|------------------|-----------|-----------|---------|------------|--------------|
|                  |           | Inches    | (mm)    | Inches     | (mm)         |
| 843-135-2801-010 | 10        | .505      | (12,83) | .450±.015  | (11,43±0,38) |
| 843-135-2801-014 | 14        | .705      | (17,91) | .650±.015  | (16,51±0,38) |
| 843-135-2801-016 | 16        | .805      | (20,45) | .750±.015  | (19,05±0,38) |
| 843-135-2801-020 | 20        | 1.005     | (25,53) | .950±.015  | (24,13±0,38) |
| 843-135-2801-024 | 24        | 1.205     | (30,61) | 1.150±.015 | (29,21±0,38) |
| 843-135-2801-025 | 25        | 1.255     | (31,88) | 1.200±.015 | (30,48±0,38) |
| 843-135-2801-026 | 26        | 1.305     | (33,15) | 1.250±.015 | (31,75±0,38) |
| 843-135-2801-034 | 34        | 1.705     | (43,31) | 1.650±.015 | (41,91±0,38) |
| 843-135-2801-036 | 36        | 1.805     | (45,85) | 1.750±.015 | (44,45±0,38) |
| 843-135-2801-037 | 37        | 1.855     | (47,12) | 1.800±.015 | (45,72±0,38) |
| 843-135-2801-040 | 40        | 2.005     | (50,93) | 1.950±.020 | (49,53±0,51) |
| 843-135-2801-050 | 50        | 2.505     | (63,63) | 2.450±.020 | (62,23±0,51) |
| 843-135-2801-060 | 60        | 3.005     | (76,33) | 2.950±.020 | (74,93±0,51) |
| 843-135-2801-064 | 64        | 3.205     | (81,41) | 3.205±.020 | (80,01±0,51) |



## characteristics

### Physical

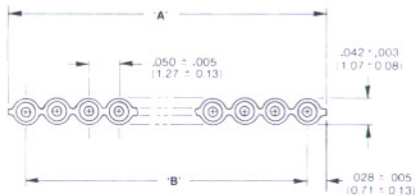
Conductors: 28 AWG, 7/36 strand, tinned copper  
Number of conductors: 10, 14, 16, 20, 24, 25, 26, 34, 36, 37, 40, 50, 60 and 64  
Color code: Brown, red, orange, yellow, green, blue, violet, gray, white, black (repeat)  
Conductor spacing: .050" ± .005"  
Cable thickness: .042" ± .003"  
Laminate: Clear PVC, self-extinguishing

## Electrical

Voltage rating: 300 V  
Current rating: 1 amp nominal at 10°C above ambient  
Temperature rating: 80°C standard  
105°C consult factory  
Impedance: 105 ohms nominal  
Capacitance: 13.0 pf/ft. (42,7 pf/m) nominal @ 1MHz  
Crosstalk: 10' sample, 5 ns rise time with 2 lines driven. NE = 4.7%  
FE = 4.3% nominal  
Propagation delay: 1.5 ns/ft. (4.9 ns/m) nominal.  
Insulation resistance: 10<sup>10</sup> ohms — 10 ft. (3 m) min.  
UL style number: Component wire style 1061. Cable style 2697 (80°C) standard. For Cable style 20130 (105°C) consult factory.  
CSA: Cable may be certified under Canadian Standards Association (CSA) Appliance Wiring Material Program (Specify at time of order). CSA AWM I A80°C, 300 V, FT-1.

## other cables in series

Conductors: 12 through 30 AWG solid, stranded, tinned overcoat, top coated, tinned, bare  
Conductor spacing: .050", .085", .100", .125", .156"



28 AWG SHOWN

## Other Capabilities

| Part Number      | AWG-Strand | Center line |
|------------------|------------|-------------|
| 843-135-2610-XXX | 26-7/34    | .050"       |
| 843-135-2601-XXX | 26-7/34    | .085"       |
| 843-135-2401-XXX | 24-7/32    | .085"       |
| 843-135-2602-XXX | 26-7/34    | .100"       |
| 843-135-2402-XXX | 24-7/32    | .100"       |
| 843-135-2603-XXX | 26-7/34    | .125"       |
| 843-135-2604-XXX | 26-7/34    | .156"       |
| 843-135-2403-XXX | 24-7/32    | .156"       |
| 843-136-2201-XXX | 22-7/30    | .156"       |

\*843-136-XXXX-XXX use a 10 mil film.

# Mouser Electronics

Authorized Distributor

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## Amphenol:

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