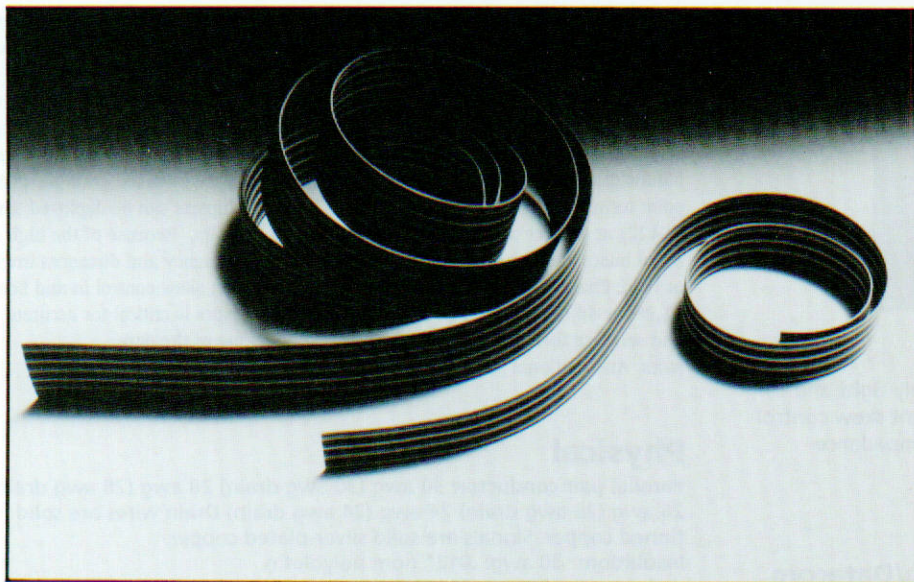


# Spectra-Bond® parallel conductors — 111 series and Spectra-Bond® twisted pairs — 114 series



## description

Bonded planar cable was originally developed, patented and introduced by Spectra-Strip. Bonded flat ribbon cables reduce both cost and packaging volume because they can be contour-formed, are self-supporting with minimum clamping, and can dissipate heat faster than round multi-conductor cable. They are used today in a great variety of interconnect systems using point-to-point wiring applications. These flat cables are fully compatible with standard termination techniques such as soldering, crimping and wire wrapping.

Spectra-Strip standard bonded cable consists of stranded or solid round conductors insulated with color-coded PVC and bonded together by a patented process to form a flat ribbon.

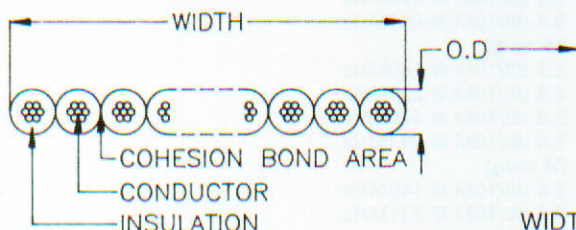
## special bonded cables

Spectra-Strip has a highly versatile design and manufacturing capability for planar bonded PVC cables. A wide range of specially designed and produced constructions can be obtained by consulting the factory with specific requirements and cable descriptions.

Bonded constructions may be designed so that a single cable can contain several different wires or cables to provide a complete range of circuit functions including power, control, transmission and signalling.

A special cross-linked PVC insulation offering improved performance in resistance to heat and abrasion plus outstanding flame retardancy is also available. It is produced by exposure to a high-energy electron beam which cross-links the molecular structure of the PVC.

## dimensions



|        |   |       |           |
|--------|---|-------|-----------|
| 30 AWG | = | .032" | (0.81 mm) |
| 28 AWG | = | .035" | (0.89 mm) |
| 26 AWG | = | .039" | (1.00 mm) |
| 24 AWG | = | .044" | (1.12 mm) |
| 22 AWG | = | .051" | (1.30 mm) |

$$\text{WIDTH} = (\text{Number of Conductors}) \times (\text{O.D.})$$

## benefits

- Low cost point-to-point wiring
- Insulation easily separated for circuit routing
- Color coded
- Standard termination techniques
- Versatile applications
- UL recognized style 

## characteristics

### Physical

#### — 111 series — parallel

Conductors: 22-30 AWG, 7 and 19 strand, tinned copper

Insulation: .010" nom. wall, flame retardant PVC

Number of conductors: 2 to 100

Color code: brown, red, orange, yellow, green, blue, violet, gray, white, black (repeat)

#### — 114 series — twisted pairs

Conductors: 22-30 AWG, 7 strand, tinned copper

Insulation: .010" nom. wall, flame retardant PVC, .016" nom. wall, flame retardant PVC available

Number of conductors: 2 to 100

### Electrical

Voltage rating: 300 V per UL

Insulation resistance:  
10<sup>10</sup> ohms — 10 ft., min.

UL style number: Cable style 2697, cable style 2693

Temperature rating: 2697 (80°C, 300V), 2693 (105°C, 300V)

CSA: Available upon request



# Spectra-Bond® parallel conductors and Spectra-Bond® twisted pairs

## order information

— 111 series

| Part No.         | AWG | No.<br>Cond. | STR   | Nom.<br>Width 'W'<br>in. (mm) | Approx.<br>Wt./Roll<br>lbs. (kg) |
|------------------|-----|--------------|-------|-------------------------------|----------------------------------|
| 843-111-3003-010 | 30  | 10           | 7/38  | .32 (8,13)                    | .74 (0,34)                       |
| 843-111-3003-015 | 30  | 15           | 7/38  | .48 (12,19)                   | 1.11 (0,50)                      |
| 843-111-3003-020 | 30  | 20           | 7/38  | .64 (16,26)                   | 1.48 (0,67)                      |
| 843-111-3003-030 | 30  | 30           | 7/38  | .96 (24,38)                   | 2.22 (1,01)                      |
| 843-111-2803-010 | 28  | 10           | 7/36  | .35 (8,89)                    | 1.00 (0,45)                      |
| 843-111-2803-015 | 28  | 15           | 7/36  | .53 (13,34)                   | 1.50 (0,68)                      |
| 843-111-2803-020 | 28  | 20           | 7/36  | .70 (17,78)                   | 2.00 (0,91)                      |
| 843-111-2803-030 | 28  | 30           | 7/36  | 1.05 (26,67)                  | 3.00 (1,36)                      |
| 843-111-2609-010 | 26  | 10           | 7/34  | .39 (9,91)                    | 1.42 (0,64)                      |
| 843-111-2609-014 | 26  | 14           | 7/34  | .55 (13,88)                   | 1.99 (0,90)                      |
| 843-111-2609-015 | 26  | 15           | 7/34  | .59 (14,86)                   | 2.13 (0,97)                      |
| 843-111-2609-016 | 26  | 16           | 7/34  | .63 (15,88)                   | 3.18 (1,44)                      |
| 843-111-2609-020 | 26  | 20           | 7/34  | .78 (19,81)                   | 2.84 (1,29)                      |
| 843-111-2609-030 | 26  | 30           | 7/34  | 1.17 (29,72)                  | 4.26 (1,93)                      |
| 843-111-2413-010 | 24  | 10           | 7/32  | .44 (11,18)                   | 2.05 (0,93)                      |
| 843-111-2414-010 | 24  | 10           | 19/36 | .45 (11,43)                   | 2.22 (1,01)                      |
| 843-111-2413-015 | 24  | 15           | 7/32  | .66 (16,76)                   | 3.08 (1,40)                      |
| 843-111-2414-015 | 24  | 15           | 19/36 | .68 (17,15)                   | 3.33 (1,51)                      |
| 843-111-2413-020 | 24  | 20           | 7/32  | .88 (22,35)                   | 4.10 (1,86)                      |
| 843-111-2414-020 | 24  | 20           | 19/36 | .90 (22,86)                   | 4.44 (2,01)                      |
| 843-111-2413-030 | 24  | 30           | 7/32  | 1.32 (33,53)                  | 6.15 (2,79)                      |
| 843-111-2414-030 | 24  | 30           | 19/36 | 1.35 (34,29)                  | 6.66 (3,02)                      |
| 843-111-2213-010 | 22  | 10           | 7/30  | .51 (12,94)                   | 2.97 (1,35)                      |
| 843-111-2214-010 | 22  | 10           | 19/34 | .51 (12,94)                   | 3.22 (1,46)                      |
| 843-111-2213-015 | 22  | 15           | 7/30  | .77 (19,43)                   | 4.46 (2,02)                      |
| 843-111-2214-015 | 22  | 15           | 19/34 | .77 (19,43)                   | 4.83 (2,19)                      |
| 843-111-2213-020 | 22  | 20           | 7/30  | 1.02 (25,91)                  | 5.94 (2,69)                      |
| 843-111-2214-020 | 22  | 20           | 19/34 | 1.02 (25,91)                  | 6.44 (2,92)                      |
| 843-111-2213-030 | 22  | 30           | 7/30  | 1.53 (38,86)                  | 8.91 (4,04)                      |
| 843-111-2214-030 | 22  | 30           | 19/34 | 1.53 (38,86)                  | 9.66 (4,38)                      |

Standard sizes are stocked and packaged in 100 foot put-ups.

## order information

— 114 series

Please consult factory for full information.

80°C, 300V cable may be certified under Canadian Standards Association (CSA) Appliances Wiring Material Program, (specify UL Style or CSA at time of order). For different wire gauges, number of conductors, color striping, materials and other special requirements, please consult the factory.

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