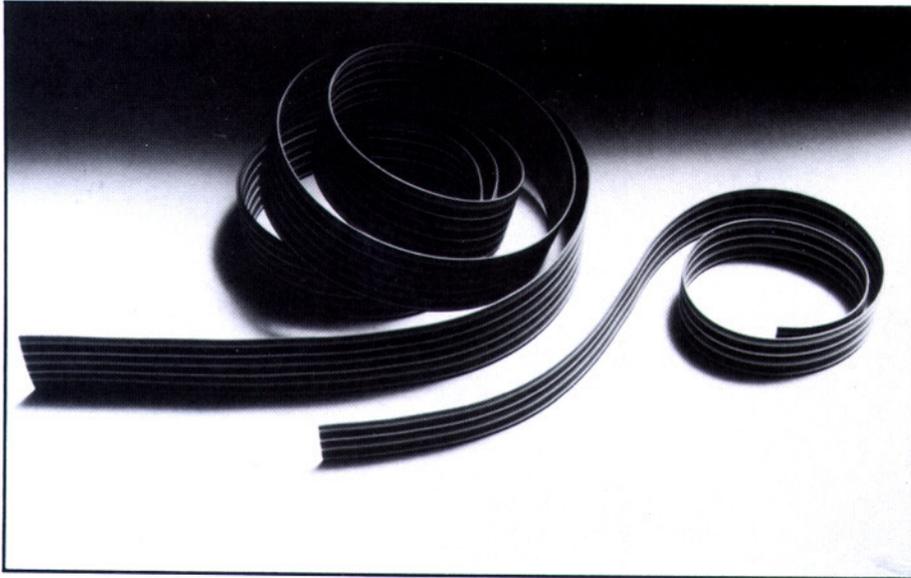


# Spectra-Bond® parallel conductors — 111 series and Spectra-Bond® twisted pairs — 114 series



## 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 interconnective 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.

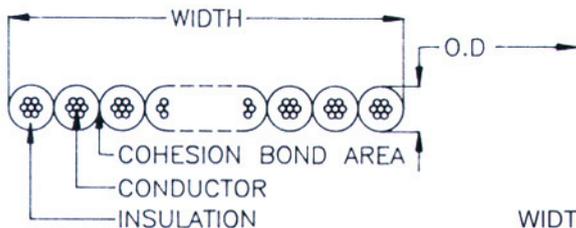
## special bonded cables

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

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