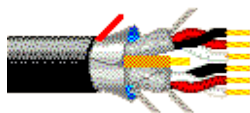


## 3049A Triad - 300V Power-Limited Tray Cable



For more Information  
please call

1-800-Belden1

**Description:**

16 AWG triads stranded (7x24) bare copper conductors, twisted triads, individually shielded plus an overall Beldfoil shield (100% coverage), PVC insulation, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | # Triads | AWG | Stranding | Conductor Material |
|--------------|----------|-----|-----------|--------------------|
| 1            | 8        | 16  | 7x24      | BC - Bare Copper   |

**Insulation****Insulation Material:**

| Insulation Material                          |
|----------------------------------------------|
| F-R PVC - Flame Retardant Polyvinyl Chloride |

**Communication Wire**

|                                      |                  |
|--------------------------------------|------------------|
| <b>Communication Wire AWG:</b>       | 22               |
| <b>Communication Wire Material:</b>  | BC - Bare Copper |
| <b>Communication Wire Stranding:</b> | 7x30             |

**Inner Shield****Inner Shield Material:**

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

**Inner Shield Drain Wire AWG:**

| AWG |
|-----|
| 18  |

|                                                    |                    |
|----------------------------------------------------|--------------------|
| <b>Inner Shield Drain Wire Stranding:</b>          | 7x26               |
| <b>Inner Shield Drain Wire Conductor Material:</b> | TC - Tinned Copper |

**Inner Shield Color Code Chart:**

| Number | Color                              |
|--------|------------------------------------|
| 1      | Black & White & Red and Numbered 1 |
| 2      | Black & White & Red and Numbered 2 |
| 3      | Black & White & Red and Numbered 3 |
| 4      | Black & White & Red and Numbered 4 |
| 5      | Black & White & Red and Numbered 5 |
| 6      | Black & White & Red and Numbered 6 |
| 7      | Black & White & Red and Numbered 7 |
| 8      | Black & White & Red and Numbered 8 |
| 9      | Orange                             |

**Outer Shield****Outer Shield Material:**

| Outer Shield Trade Name | Type | Outer Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

**Outer Shield Drain Wire AWG:**

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
|-----|-----------|-------------------------------|

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 3049A Triad - 300V Power-Limited Tray Cable

|    |      |                    |
|----|------|--------------------|
| 16 | 7x24 | TC - Tinned Copper |
|----|------|--------------------|

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material                        | Nom. Wall Thickness (in.) |
|----------------------------------------------|---------------------------|
| F-R PVC - Flame Retardant Polyvinyl Chloride | .064                      |

Outer Jacket Ripcord: Yes

### Overall Cable

Overall Nominal Diameter: 0.764 in.

### Pair

Pair Lay Length & Direction:

| Twists/ft. (twist/ft) |
|-----------------------|
| 4.8                   |

### Mechanical Characteristics (Overall)

|                                        |                  |
|----------------------------------------|------------------|
| Operating Temperature Range:           | -30°C To +105°C  |
| Bulk Cable Weight:                     | 390 lbs/1000 ft. |
| Max. Recommended Pulling Tension:      | 840 lbs.         |
| Min. Bend Radius (Install)/Minor Axis: | 7.600 in.        |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                             |
|---------------------------------------|-----------------------------|
| NEC/(UL) Specification:               | PLTC, ITC, CMG              |
| CEC/C(UL) Specification:              | CMG                         |
| AWM Specification:                    | UL Style 2464 (300 V 105°C) |
| EU Directive 2000/53/EC (ELV):        | Yes                         |
| EU Directive 2002/95/EC (RoHS):       | Yes                         |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005                  |
| EU Directive 2002/96/EC (WEEE):       | Yes                         |
| EU Directive 2003/11/EC (BFR):        | Yes                         |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                         |
| MII Order #39 (China RoHS):           | Yes                         |

### Flame Test

|                  |                    |
|------------------|--------------------|
| UL Flame Test:   | UL1685 FT4 Loading |
| CSA Flame Test:  | FT4                |
| IEEE Flame Test: | 1202               |
| ICEA Flame Test: | T-29-520           |

### Suitability

Sunlight Resistance: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| 16 AWG      | 4.2                      |
| 22 AWG      | 14.7                     |

Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
|--------------------------|

## 3049A Triad - 300V Power-Limited Tray Cable

5.4

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

3.6

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Notes (Overall)

**Notes:** Alternate color coding available upon request.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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