

Part Number: 1338A

FOUNDATION Fieldbus, (2 pr) 18 AWG (7x26) TC+Grd, (1)  
18 AWG (7x26) TC, FRPO/PVC, Foil Shld, TC-ER

## Product Description

Two 18 AWG pairs stranded (7x26) tinned copper conductors plus ground wire, flame retardant polyolefin insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| Element                            | AWG | Stranding | Material           | No. of Conductors | No. of Pairs |
|------------------------------------|-----|-----------|--------------------|-------------------|--------------|
|                                    | 18  | 7x26      | TC - Tinned Copper | 1                 | 2            |
| Ground Wire                        | 18  | 7x26      | TC - Tinned Copper |                   |              |
| <b>Total Number of Conductors:</b> |     |           |                    | 5                 |              |

#### Insulation:

| Material                          |
|-----------------------------------|
| PVC - Polyvinyl Chloride          |
| FRPO - Flame Retardant Polyolefin |

#### Color Chart 1:

| Number | Color                          |
|--------|--------------------------------|
| 1      | Blue and Orange and Numbered 1 |
| 2      | Blue and Orange and Numbered 2 |
| 3      | Green/Yellow (Ground)          |

#### Stranding:

| Lay Length |
|------------|
| Y mm       |

#### Innershield:

| Type | Material                     | Material Trade Name | Coverage [%] | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil®           | 100 %        | 18            | 7x26 mm                      |
|      | TC - Tinned Copper           |                     |              |               |                              |

#### Outershield 1:

| Type | Material                     | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil®           | 100 %        | TC - Tinned Copper | 20            | 7x28 mm                      |

#### Outerjacket 1:

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.51 in          |

## Electrical Characteristics

#### Conductor DCR:

| Individual Pair Nominal Shield DCR | Nominal Conductor DCR |
|------------------------------------|-----------------------|
| 7.5 Ohm/1000ft                     | 5.86 Ohm/1000ft       |

#### Capacitance:

| Max. Capacitance Unbalance | Nom. Capacitance Conductor to Other Conductor to Shield | Nom. Mutual Capacitance |
|----------------------------|---|-------------------------|
| 1.2 pF/ft                  | 45 pF/ft  | 24 pF/ft                |

|                                    |  |
|------------------------------------|--|
| Other Electrical Characteristic 1: | Max. Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft |
|------------------------------------|--|

|                                    |                 |
|------------------------------------|-----------------|
| Other Electrical Characteristic 2: | 31.25 KBits/sec |
|------------------------------------|-----------------|

#### High Frequency (Nominal/Typical):

| Nom. Insertion Loss |
|---------------------|
| 0.08 db/100ft       |

#### High Freq:

| Frequency [MHz] | Max. Insertion Loss (Attenuation) | Max./Min. Input Impedance (unFitted) |
|-----------------|-----------------------------------|--------------------------------------|
| 0.031 MHz       | 0.091 db/100ft                    | 100 Ohm                              |
| 0.039 MHz       |                                   |                                      |
| 0.039 MHz       |                                   |                                      |

#### Current:

| Element       | Max. Recommended Current [A] |
|---------------|------------------------------|
| Per Conductor | 5.2 Amps                     |

#### Inductance:

| Nominal Inductance |  |
|--------------------|--|
| 0.22 $\mu$ H/ft    |  |

## Voltage:

| UL Voltage Rating |  |
|-------------------|--|
| 600 V RMS         |  |

## Use

|                                    |         |
|------------------------------------|---------|
| Suitability - Oil Resistance:      | Yes     |
| Suitability - Indoor:              | Yes     |
| Suitability - Outdoor:             | Yes     |
| Suitability - Sunlight Resistance: | Yes     |
| Max Recommended Pulling Tension:   | 112 lbs |

## Safety

|                  |                   |
|------------------|-------------------|
| UL Flammability: | UL1685 UL Loading |
|------------------|-------------------|

## Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -30°C To +75°C |
| UL Temp Rating:       | 75°C           |

## Mechanical Characteristics

|                             |        |
|-----------------------------|--------|
| Min Bend Radius/Minor Axis: | 5.1 in |
|-----------------------------|--------|

## Part Number

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Standards

|                                   |                                  |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| MII Order #39 (China RoHS):       | MII Order #39 (China RoHS)       |
| NEC/(UL) Specification:           | NEC/(UL) Specification           |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |
| EU CE Mark:                       | EU CE Mark                       |

## History

## Product Variants

| Part Number   | Color  | Put-Up Type | Length  |
|---------------|--------|-------------|---------|
| 1338A 0037500 | ORANGE | Reel        | 7500 ft |

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