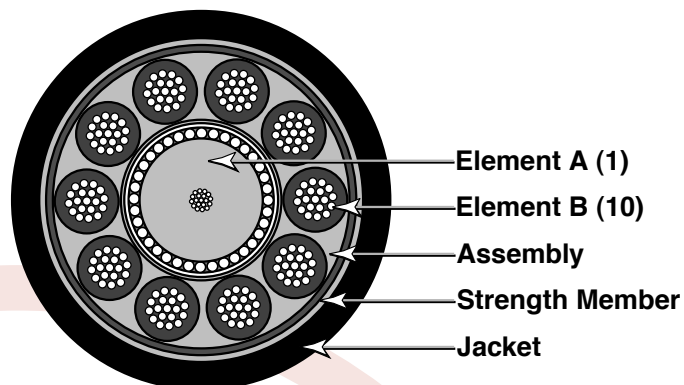


# VIDEO INSPECTION CABLE

**A304585**

| ELEMENT A<br>Coax 1 |                                 |       |
|---------------------|---------------------------------|-------|
| Conductor           | 24 AWG                          | .024" |
| Insulation          | LDPE                            | .148" |
| Shield              | 13 AWG equivalent served copper | .173" |
| Shielding Tape      | Copper Polyester                | .180" |
| Tape                | Adhesive Polyester              |       |



| ELEMENT B<br>(Power Single) 10 |  |       |
|--------------------------------|--|-------|
| Conductor                      | 18 AWG   | .045" |
| Insulation                     | Polypropylene  | .076" |
| Colors                         | 1 Red, 1 Black, 2 Green, 2 Orange, 2 Blue and 2 Yellow |       |

| Cable Construction |  |                |
|--------------------|--|----------------|
| Cable Assembly     | Core: 1 Element A<br>Layer 1: 10 Element B's | .180"<br>.332" |
| Strength Member    | 2 Layer Served P-Aramid Fiber                | .380"          |
| Jacket             | Nylon  | .440"          |

## Cable Characteristics (Nominal Values @ 20°C)

| Physical            |           |            |
|---------------------|-----------|------------|
|                     | metric    | english    |
| Weight in Air       | 188 kg/km | 126 lb/kft |
| Weight in Sea Water | 87 kg/km  | 59 lb/kft  |
| Specific Gravity    | 1.9       | 1.9        |

| Attenuation |            |            |
|-------------|------------|------------|
| Element A   |            |            |
|             | metric     | english    |
| @ .5 MHz    | 9.2 dB/km  | 2.8 dB/kft |
| @ 1.0 MHz   | 12.5 dB/km | 3.8 dB/kft |

| Mechanical                    |         |           |
|-------------------------------|---------|-----------|
|                               | metric  | english   |
| Breaking Strength (Fixed End) | 16.9 kN | 3,800 lbf |
| Working Load                  | 2.2 kN  | 500 lbf   |
| Recommended Bend Radius       | 23 cm   | 9"        |

| Capacitance       |         |          |
|-------------------|---------|----------|
|                   | metric  | english  |
| Element A @ 1 kHz | 69 pF/m | 21 pF/ft |

| Electrical            |           |             |             |
|-----------------------|-----------|-------------|-------------|
|                       |           | metric      | english     |
| <b>Voltage Rating</b> |           |             |             |
| Element A             |           | 1,500 volts | 1,500 volts |
| Element B             |           | 600 volts   | 600 volts   |
| <b>dc Resistance</b>  |           |             |             |
| Element A             | conductor | 78.4 Ω/km   | 23.9 Ω/kft  |
|                       | shield    | 6.2 Ω/km    | 1.9 Ω/kft   |
| Element B             |           | 24.6 Ω/km   | 7.5 Ω/kft   |

| Characteristic Impedance |        |         |
|--------------------------|--------|---------|
|                          | metric | english |
| Element A @ 1 MHz        | 75 Ω   | 75 Ω    |

| Insulation Resistance |             |               |
|-----------------------|-------------|---------------|
|                       | metric      | english       |
| Element A             | 3,000 MΩ-km | 10,000 MΩ-kft |
| Element B             | 3,000 MΩ-km | 10,000 MΩ-kft |