

# BT3002 COAXIAL CABLE 75 Ohm



NORDEN BT3002 Coaxial cable is mainly used for internal installation in the transmission equipment of the digital telephone exchange system. Due to their miniature size, these cables are suitable to high performance applications.



## CABLE CONSTRUCTION

### Conductor

Bare Copper

### Insulation Color

Neutral

### Outer Jacket

PVC (Polyvinyl Chloride)

### Insulation

Solid PE (Polyethylene)

### Braid Wire

TC Wire

### Jacket Color

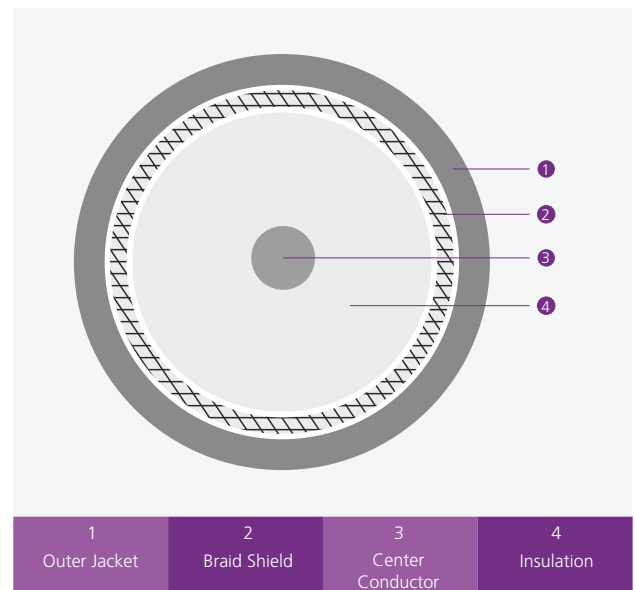
White

## PHYSICAL CHARACTERISTICS

| Characteristic                     | Value          |
|------------------------------------|----------------|
| Center Conductor Diameter          | 0.31 mm        |
| Insulation Diameter                | 1.95 mm        |
| Braid Wire Diameter                | 0.10 mm        |
| No. of Braid Wire                  | 80 and 96      |
| Braid Wire Coverage                | 88% and 89%    |
| Min. Bending Radius (Installation) | 9.75 mm        |
| Max. Pulling Tension               | 126 N          |
| Operating Temperature              | -20°C to +75°C |

## ELECTRICAL CHARACTERISTICS

| Characteristic           | Unit         | Value |
|--------------------------|--------------|-------|
| Characteristic Impedance | $\Omega$     | 75.0  |
| Capacitance              | pF/m         | 67.0  |
| Center Conductor DCR     | $\Omega$ /km | 236   |
| Braid Wire DCR           | $\Omega$ /km | <14.8 |
| Velocity of Propagation  | %            | 66    |
| Dielectric Strength      | VCA          | 3500  |
| Jacket Sparker           | VCA          | 2500  |
| Return Loss (5-100 MHz)  | dB           | 20.0  |



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## PERFORMANCE CHARACTERISTICS

| Frequency at 20°C (MHz) | Attenuation (10% higher) (dB/100m) |
|-------------------------|------------------------------------|
| 1                       | 2.13                               |
| 4                       | 4.29                               |
| 17                      | 8.93                               |
| 69                      | 18.32                              |
| 78                      | 19.53                              |

## RoHS GUIDELINE

| Properties                           | Value     |
|--------------------------------------|-----------|
| Calcium Content (Cd)                 | < 0.01%   |
| Lead Content (Pb)                    | < 0.1%    |
| Mercury Content (Hg)                 | < 0.1%    |
| Chromium (VI) Content                | < 0.1%    |
| Polybrominated Biphenyls (PBB)       | Forbidden |
| Polybrominated Diphenyl Ether (PBDE) | Forbidden |

## ORDERING INFORMATION

| Part Number   | Description                         | Outer Diameter (mm) |
|---------------|-------------------------------------|---------------------|
| 475-0BT300201 | BT3002 Coaxial Cable 75 Ohm 1 Core  | 3.55                |
| 475-0BT300202 | BT3002 Coaxial Cable 75 Ohm 2 Core  | 7.5                 |
| 475-0BT300208 | BT3002 Coaxial Cable 75 Ohm 8 Core  | 16                  |
| 475-0BT300216 | BT3002 Coaxial Cable 75 Ohm 16 Core | 20.2                |