

## CST-500-12/OM4 Armerad Fiberkabel 12-fiber

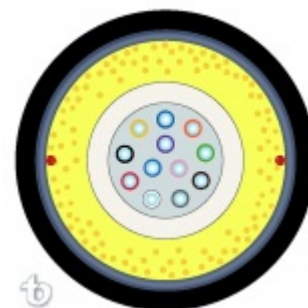
**Part Number:** **F301201BCB**



**Applications:** Campus Distribution cabling, Direct Burial Campus Backbone, General purpose armored Outdoor, Outdoor Plant Duct Installation, Rugged environments

**General Construction:** This gel free cable contains 12 MM OM-4 color-coded optical fibers, each with a 250um outer diameter. The optical fibers are contained in the loose tube including swellable yarns to prevent the ingress of water. Fiber-glass strength yarns reinforce the tube and serve as an armoring layer. A corrugated steel armor is longitudinally applied over the fiber-glass strength yarns. An outer Jacket extruded over the armoring completes the cable structure. Rip cords are added under the armor to facilitate removal.

**Outer Jacket Material:** FRNC-LSZH  
**Outer Diameter:** 9.6 mm nom.  
**Weight:** 130 kg/km



## Design & Materials

|                              |                         |
|------------------------------|-------------------------|
| <b>Buffer Material:</b>      | Polypropylene FR        |
| <b>Tube Diameter:</b>        | 3.1 mm nom.             |
| <b>Color Code:</b>           | Per TIA/EIA 598-D       |
| <b>Strength Elements:</b>    | E-Glass Yarns           |
| <b>Armor:</b>                | Yes                     |
| <b>Armoring:</b>             | Corrugated Steel - ECCS |
| <b>Armor Thickness (um):</b> | 150 µm                  |
| <b>Number of fibers:</b>     | 12                      |
| <b>Waterblocking:</b>        | Dry Waterblocking       |
| <b>Rip-Cord:</b>             | Yes                     |
| <b>Outer Jacket Color:</b>   | Black                   |

## Standards

|                              |                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------|
| <b>Applicable Standards:</b> | IEC 60794-1-21/22, IEC 60794, ISO/IEC 11801-1, TIA/EIA-568, ASTM G154, RoHS 3 2015/863/EU |
| <b>Flammability Rating:</b>  | IEC 60332-1, IEC 60332-3 , EN 50575:2014 Dcas2d2a1 (CPR)                                  |

## Performance

|                                           |             |
|-------------------------------------------|-------------|
| <b>Max. Installation Tensile Load :</b>   | 2700 N max. |
| <b>Max. fiber strain at MIT:</b>          | 0.6 %       |
| <b>Max. Fiber Strain at MRS.:</b>         | 0.2 %       |
| <b>Max. Residual Tension (MRS):</b>       | 810 N       |
| <b>Impact Resistance:</b>                 | 10 N*m      |
| <b>Impact Resistance:</b>                 | 3 cycles    |
| <b>Max. Crush Resistance:</b>             | 400 N/cm    |
| <b>Min. Bend Radius for Installation:</b> | 20xD mm     |
| <b>Min. Bend Radius for Operation:</b>    | 20xD mm     |
| <b>Repeated Bending:</b>                  | 25 cycles   |
| <b>Torsion (L=125 x d):</b>               | 10 cycles   |
| <b>Max. Operating Temperature:</b>        | +70 °C      |
| <b>Min. Operating Temperature:</b>        | -40 °C      |
| <b>Max. Installation Temperature:</b>     | +45 °C      |
| <b>Min. Installation Temperature:</b>     | -20 °C      |
| <b>Max. Storage Temperature:</b>          | +70 °C      |
| <b>Min. Storage Temperature:</b>          | -40 °C      |
| <b>UV Resistance:</b>                     | Yes         |
| <b>Waterblocking:</b>                     | Yes         |