

**Nexans Ref.:** 10571946  
**Country Ref.:** 1007646  
**EAN 13:** 7330000167216

Type QXXE Ultimate™ is a loose tube fibre optical cable. The cable type is intended for use in regional, urban, and area property networks.

### STANDARDS

**Product** IEC 60794

**Test** IEC 60793

**International** ITU-T Rec. G.650; ITU-T Rec. G.652

The cable type is longitudinally water-blocked and intended for outdoor use (in ducts). The design can incorporate 12 to 288 fibres in loose tubes. The individually coloured fibres are tubed in groups of maximum 12 or 24 and stranded onto a central dielectric fibre reinforced strength member (FRP). The cable type is longitudinal water-blocked through the use of swellable yarn and sheathed with halogen-free black polyethylene.



Halogen free  
Yes



Operating temp.  
-40 ... 70 °C



Ambient installation T°C range  
-15 ... 50 °C



Storage temperature, range  
-40 ... 70 °C



Bending factor installed  
10 (xD)



Dynamic bending factor  
15 (xD)

## CHARACTERISTICS

### Construction characteristics

|                                                |                  |
|------------------------------------------------|------------------|
| Construction type                              | Loose tube, SZ   |
| Fiber optic type                               | SingleMode 9/125 |
| Type of secondary protection                   | Loose tube       |
| Outer sheath                                   | PE-HD            |
| Sheath colour                                  | Black            |
| Material used for longitudinal water tightness | Swellable yarn   |
| Halogen free                                   | Yes              |
| Metal free                                     | Yes              |
| Length water tightness Tube                    | Vaseline         |
| Number of tube layer 1                         | 6                |
| Strength member                                | Central FRP      |

### Dimensional characteristics

|                                 |           |
|---------------------------------|-----------|
| Number of optical fibres, range | 2 ... 288 |
| Number of optical fibres        | 72        |
| Average sheath thickness        | 0.4 mm    |
| Approximate weight              | 30 kg/km  |
| Central strength member size    | 1.7 mm    |
| Diameter over assembly          | 5.0 mm    |
| Max. number of fibres per tube  | 12        |
| Nominal outer diameter          | 5.8 mm    |
| Tube diameter                   | 1.6 mm    |

### Mechanical characteristics

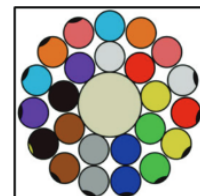
|                                 |         |
|---------------------------------|---------|
| Maximum pulling force by laying | 0.6 kN  |
| Maximum permanent tensile load  | 0.25 kN |
| Crush resistance (EN 187 000)   | 1 kN    |
| Impact resistance (EN 187 000)  | 5 J     |

### Usage characteristics

|                                         |                |
|-----------------------------------------|----------------|
| Installation type                       | Outdoor - Duct |
| Operating temperature, range            | -40 ... 70 °C  |
| Ambient installation temperature, range | -15 ... 50 °C  |
| Storage temperature, range              | -40 ... 70 °C  |
| Bending factor when installed           | 10 (xD)        |
| Dynamic bending factor                  | 15 (xD)        |

## COLOR CODE

# Fargekoder for fiber og rør



| FARGEKODE LOOSE TUBE FIBERKABEL    |         |           |             |
|------------------------------------|---------|-----------|-------------|
| Fiber nr.                          | Farge   | Fiber nr. | Farge/strek |
| 1                                  | hvit    | 13        | hvit + —    |
| 2                                  | rød     | 14        | rød + —     |
| 3                                  | gul     | 15        | gul + —     |
| 4                                  | grønn   | 16        | grønn + —   |
| 5                                  | blå     | 17        | blå + —     |
| 6                                  | grå     | 18        | grå + —     |
| 7                                  | brun    | 19        | brun + —    |
| 8                                  | sort    | 20        | klar + —    |
| 9                                  | fiolett | 21        | fiolett + — |
| 10                                 | turkis  | 22        | turkis + —  |
| 11                                 | orange  | 23        | orange + —  |
| 12                                 | rosa    | 24        | rosa + —    |
| Rørfargene følger fiberfargene     |         |           |             |
| Landkabler med norsk 4 bokstavkode |         |           |             |

På kabler hvor fargerekkefølgen på rørene ikke følger fiberfargene gjelder følgende:

Kabler oppbygd av ett lag med fiberrør:  
Rør nr. 1 er rødt, rør nr. 2 er grønt, resten er hvite.

Kabler med flere lag fiberrør:  
I hvert lag er rør nr. 1 rødt, rør nr. 2 grønt, resten hvite.

Fiber nr. 1 finnes i det innerste laget på kabelen.

## SELLING AND DELIVERY INFORMATION

The outer sheath of the cable is marked with cable type, manufacturer, identification number and meter marking. The cable is delivered on wooden recyclable drums in lengths according to arrangement. The drum is marked with the cable type, length, rolling direction and installation information. Cable ends closed with end cap.