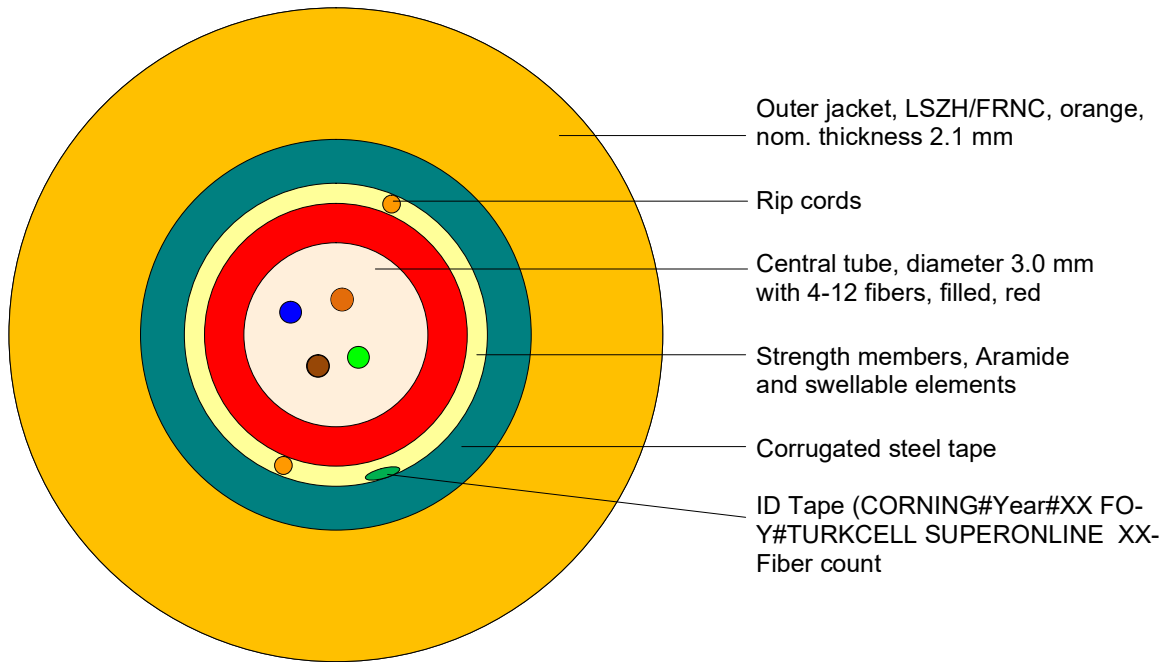


## Armored indoor/outdoor cables

with 4 - 12 Corning® single-mode fibers E9/125 SMF-28® ULTRA and corrugated steel tape



**Principle Drawing:**

**U-DQ(ZN)(SR)H 1x4 – 1x12 E9U/125 CT 3.0 OR**

### Features and Benefits

- Particularly light, thin and robust cables
- Cable for blowing or pulling into duct systems, laying in concrete channels or on cable racks
- Central tube design
- Dry cable core by water-swellable elements
- Corrugated steel tape armoring
- The used Corning® single-mode fiber SMF-28®ULTRA optical fiber is an ITU-T G652.D compliant optical fiber with Corning's enhanced low loss and bend technologies. This full-spectrum fiber has bend performance that exceeds the ITU-T G.657.A1 standard and still splices the same as the installed base of standard SM fibers such as SMF28e+®
- Cable design and coloring for fiber and loose tubes after customer specification
- Flame retardant to IEC 60332-1-2 (single cable). Reaction to fire according to EN 50575 and EN 13501-6, Low Smoke to IEC 61034 and Zero Halogen to IEC 60754-1, Non-corrosive to IEC 60754-2
- Water blocking after IEC 60794-1-2 F5

© 2019 Corning Incorporated. All Rights Reserved.

Data sheet: 23-11-28 U-DQ(ZN)(SR)H 4-12 E9U CT Corning-Turkcell Superonline  
TR\_012ZEUEC787AOR

COC reserves the right to improve, enhance, and modify the features and specifications of COC's products without prior notification. The information in this data sheet has been reproduced in good faith and is accurate, to the best of COC's knowledge, at the time of printing. However, COC makes no warranty as to, and will not be liable on any basis for, the information contained within this data sheet.

# Data Sheet

CORNING

## Coloring

Fibers: red, yellow, green, natural (4 fibers)  
red, yellow, green, blue, violet, brown, black, natural (8 fiber)  
red, yellow, green, blue, violet, brown, black, orange, pink, grey, aqua, natural (12 fiber)

Central tube: red

Outer jacket: orange LSZH/FRNC

Cable marking: Meter#Handset# Drum number#TURKCELL SUPERONLINE# Tel: +90 532 229953#  
XX FO-Y OPTIK KABLO#CORNING#Handset XX = number of fibers

Method: Ink jet, black

## Characteristics of fibers SMF-28® ULTRA (low loss and bend improved fiber)

Optical and mechanical:

Mode field diameter at 1310 nm	[ $\mu\text{m}$ ]	$9.2 \pm 0.4$
Cladding diameter	[ $\mu\text{m}$ ]	$125.0 \pm 0.7$
Coating diameter	[ $\mu\text{m}$ ]	$242 \pm 5$
Attenuation at 1310 nm	[dB/km]	$\leq 0.34$
Attenuation at 1550 nm	[dB/km]	$\leq 0.20$
Attenuation at 1383 nm	[dB/km]	$\leq 0.34$
Dispersion in the range 1285 to 1330 nm	[ps/(nm*km)]	$\leq 3.5$
Max.Dispersion at 1550 nm	[ps/(nm*km)]	$\leq 18$
Cable cutoff Wavelength ( $\lambda_{cc}$ )	[nm]	$\leq 1260$
PMD cabled (link value)	Ps/ $\sqrt{}$	$\leq 0,04^*$
Max.PMD cabled (single fiber)	Ps/ $\sqrt{}$	$\leq 0,1$

\*) \*) Complies with IEC 60794-3:2001, Section 5.5, Method 1 (m=20, Q=0,01%)

The fibers is fully compliant with ITU-T G.652.D standard and exceeds ITU-T G.657.A1 standard

## Technical cable characteristics

Mechanical and environmental:

Cable type <b>U-DQ(ZN)(SR)H ...</b>		
Number of fibers		4 - 12
Diameter central tube	[mm]	3.0
Diameter cable, approx.	[mm]	8
Cable weight, approx.	[kg/km]	89
Min. bending radius during installation/operation	[mm]	20xD/15xD
Tensile strength operation	[N]	1000
Crush resistance long term (tested for 15 minutes)	[N/10 cm]	2000
Temperature range	[°C]	-5 to 50
Laying and installation		-30 to 70
Operation		-30 to 70
Transport and storage		-30 to 70
Water penetration (0.1 bar / 24 h)	[m]	$\leq 3$

## Delivery length

Delivery length up to 6 km

© 2019 Corning Incorporated. All Rights Reserved.

Data sheet: 23-11-28 U-DQ(ZN)(SR)H 4-12 E9U CT Corning-Turkcell Superonline  
TR\_012ZEU-EC787AOR

COC reserves the right to improve, enhance, and modify the features and specifications of COC's products without prior notification. The information in this data sheet has been reproduced in good faith and is accurate, to the best of COC's knowledge, at the time of printing. However, COC makes no warranty as to, and will not be liable on any basis for, the information contained within this data sheet.