

Outdoor Cable, Corrugated Steel Armouring Double Sheath, A-DQ(ZN)2Y(SR)2Y

CORNING

Features and Benefits

Waterblocking technology

OSP (outdoor) applications

Corrugated steel armouring

Rodent, mechanical protection and direct buried applications

UV- and microbe-resistant

Can be installed in ducts or conduits

Dry cable core by means of water swellable elements

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

Fibres/buffer tubes colour coding to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

SZ-stranded, loose tube design

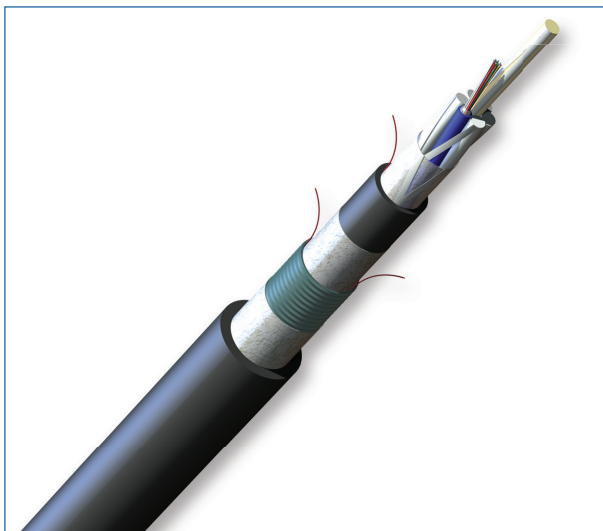
Isolates fibres from installation and environmental rigors and facilitates mid-span access

Corning stranded loose tube cables with corrugated steel armouring are designed for outdoor use for campus, city and intercity backbones in duct and direct burial installations.

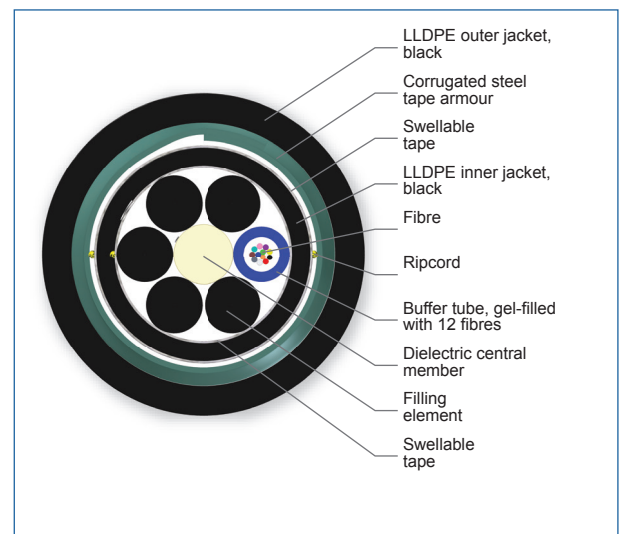
The loose tube cable construction, by isolating the fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The buffer tubes and fibres in each tube are colour coded for quick and easy identification.

The SZ-stranded construction further reduces installation and environmental influences on the transmission parameters and allows mid-span access.

These cables are designed for installation in conduits, ducts, and for direct burial.



A-DQ(ZN)2Y(SR)2Y Outdoor Cable Corrugated Steel
Armouring Double Sheath



A-DQ(ZN)2Y(SR)2Y 1x12

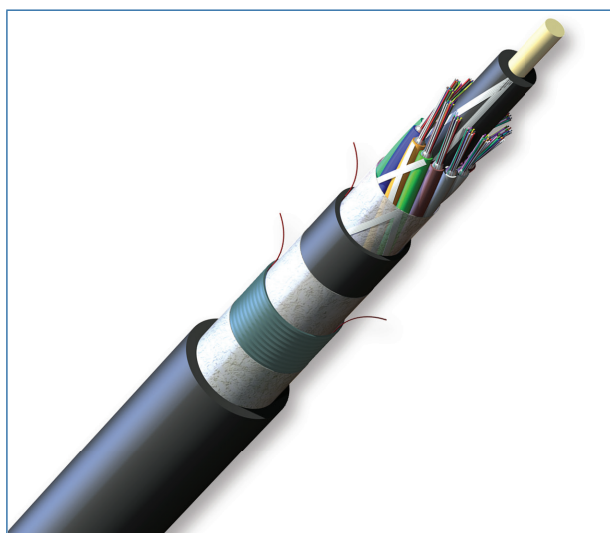
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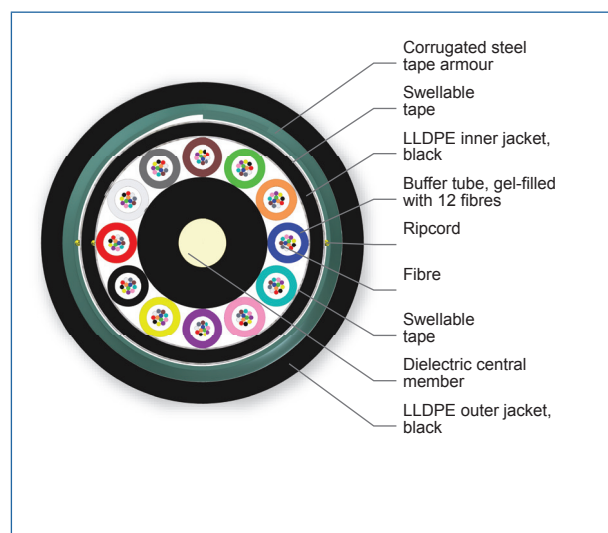
Standards

Waterblocking Waterblocking according to IEC 60794-1-2-F5

Approvals and Listings Telcordia (Bellcore) colour standard for fibres and tubes



A-DQ(ZN)2Y(SR)2Y Outdoor Cable Corrugated Steel Armouring Double Sheath



A-DQ(ZN)2Y(SR)2Y 12x12

Specifications

Cable design	
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube colour coding	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Buffer tube diameter	2.25 mm
Filling element colour	Natural
Filling element diameter	2.25 mm
Inner Jacket Material	Linear Low Density Polyethylene (LLDPE)
Inner jacket nominal thickness	1 mm
Inner Jacket Colour	black
Outer jacket material	Linear Low Density Polyethylene (LLDPE)
Outer jacket nominal thickness	1.5 mm

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Cable design

Outer jacket colour	black
Cable marking	Metre - Handset - Sine - CORNING - Year - A-DQ(ZN)2Y(SR)2Y + Fibre count + Fibre type

Temperature Range

Installation and assembly	-5 °C to 50 °C
Operation	-30 °C to 70 °C
Storage	-40 °C to 70 °C

Mechanical Characteristics Cable

Fibre Count	Fibres per tube	Number of Active Tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Max. tensile strength for installation	Crush resistance (reversible)
4	4	1	180 kg/km	14.0 mm	308 mm	245 mm	2700 N	3000 N/10 cm
12 - 72	12	1 - 6	180 kg/km	14.0 mm	308 mm	245 mm	2700 N	3000 N/10 cm
12 - 24	6	2 - 4	180 kg/km	14.0 mm	308 mm	245 mm	2700 N	3000 N/10 cm
96	12	8	210 kg/km	15.6 mm	340 mm	260 mm	2700 N	3000 N/10 cm
144	12	12	295 kg/km	18.5 mm	407 mm	330 mm	2700 N	3000 N/10 cm
288	6	24	365 kg/km	20.8 mm	457.6 mm		2700 N	3000 N/10 cm
288	12	24	365 kg/km	20.8 mm	458 mm	364 mm	2700 N	3000 N/10 cm

* Fibre count per tube, colour coding of fibres and/or buffer tubes, hybrid construction, jacket colour and/or printings deviating from standard design have no influence whatsoever on mechanical and optical characteristics.

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Transmission Performance

Multimode				
Fibre name	G62.5L/125 InfiniCor® 300	G50/125 ULTRA-BEND 7.5	G50/125 ULTRA-BEND 7.5	G50/125 ULTRA-BEND 7.5
Fibre core diameter (µm)	62.5	50	50	50
Fibre Category	OM1	OM2	OM3	OM4
Fibre code	K	T	T	T
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300
Maximum attenuation (dB/km)	3.1/0.8	2.8/1.0	2.8/1.0	2.8/1.0
Typical attenuation (dB/km)	2.9/0.7	2.4/0.8	2.4/0.8	2.4/0.8
Serial 1 gigabit ethernet (m)	300/550	750/600	1000/600	1100/600
Serial 10 gigabit ethernet (m)	33/-	150/-	300/333	550/-
Min. overfilled launch (OFL) band-width (MHz*km)	200/600	700/500	1500/500	3500/500
Minimum effective modal band-width (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-
Induced attenuation @ 7.5 mm radius (dB)	-	<0.2/-	<0.2/-	<0.2/-

Single-mode	
Fibre name	E9/125 SMF28e+®
Fibre core diameter (µm)	8.2
Fibre Category	OS2
Fibre code	E
Wavelengths (nm)	1310/1383/1550
Maximum attenuation (dB/km)	0.36/0.36/0.22
Serial 1 gigabit ethernet (m)	5000/-/-
Serial 10 gigabit ethernet (m)	10000/-/40000
Cable cutoff wavelength (nm)	1260
Standards in compliance	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2



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