

# Central Loose Tube Metallic Armored Cable 4-24F

A-DQ(ZN)(SR)2Y

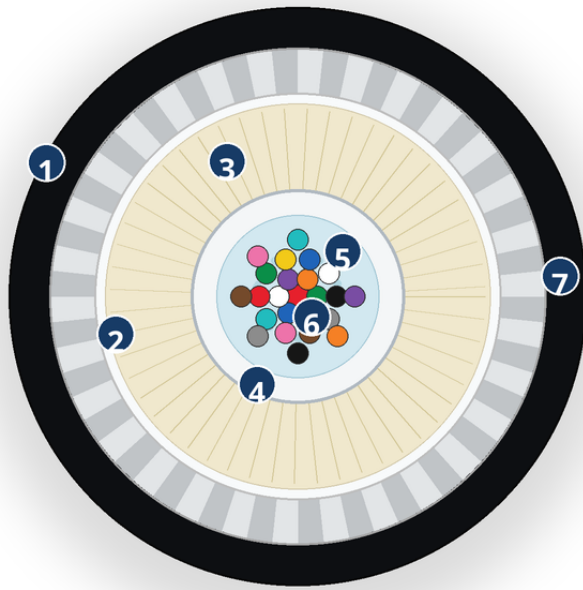


## CORE PRODUCT DATA

Cable family	Outdoor steel-armored central loose tube cable
Code designation	A-DQ(ZN)(SR)2Y
Fiber count range	4, 6, 8, 12 or 24 fibers
Tube / filling	PBT loose tube with thixotropic gel
Aarmor	Corrugated steel tape
Outer sheath	UV resistant PE, black
Typical route	Outdoor duct, underground and anti-rodent routes

# Numbered Cable Cross Section

A-DQ(ZN)(SR)2Y - central loose tube metallic armored outdoor cable



## Component legend

- 1 UV resistant PE outer jacket  
Black outdoor sheath
- 2 Corrugated steel tape armor  
Metallic anti-rodent protection
- 3 Swellable glass yarn  
Peripheral strength member
- 4 Thixotropic gel  
Water blocking inside the tube
- 5 PBT central loose tube  
2.5 mm or 3.0 mm by fiber count
- 6 Optical fibers  
4-24 SM or MM fibers
- 7 Polyester ripcord  
Easy sheath opening during installation

Layer order  
outside to inside



# Technical Construction and Performance

Construction values for A-DQ(ZN)(SR)2Y outdoor corrugated steel armored cable

## Cable construction

Item	4F	6F	8F	12F	24F
Loose tube outer diameter	2.5 mm $\pm$ 3%	2.5 mm $\pm$ 3%	2.5 mm $\pm$ 3%	2.5 mm $\pm$ 3%	3.0 mm $\pm$ 3%
Loose tube material	PBT	PBT	PBT	PBT	PBT
Tube filling material	Thixotropic gel	Thixotropic gel	Thixotropic gel	Thixotropic gel	Thixotropic gel
Peripheral strength member	Swellable glass yarn	Swellable glass yarn	Swellable glass yarn	Swellable glass yarn	Swellable glass yarn
Ripcord	Polyester	Polyester	Polyester	Polyester	Polyester
Armored material	Corrugated steel	Corrugated steel	Corrugated steel	Corrugated steel	Corrugated steel
Outer sheath material	UV resistant PE	UV resistant PE	UV resistant PE	UV resistant PE	UV resistant PE
Approx. cable diameter	8.0 mm $\pm$ 0.2	8.0 mm $\pm$ 0.2	8.0 mm $\pm$ 0.2	8.0 mm $\pm$ 0.2	8.2 mm $\pm$ 0.2
Approx. cable weight	68 $\pm$ 10% kg/km	68 $\pm$ 10% kg/km	68 $\pm$ 10% kg/km	68 $\pm$ 10% kg/km	76 $\pm$ 10% kg/km

### Steel armored

Corrugated steel tape improves rodent and mechanical protection on outdoor routes.

### Water resistant

Gel-filled central loose tube and swellable elements support longitudinal water blocking.

### Compact route cable

4-24 fibers in a central tube construction for duct, underground and campus backbone use.

# Mechanical and Environmental Characteristics

Performance data organized for installation and route planning

## Mechanical characteristics

Test	Test conditions	4-12F	24F	Unit / method
Max. tensile strength	During installation / in service	1000 / 400	1000 / 400	N - IEC 60794-1-2 E1
Minimum bending radius	During installation / in service	20xD / 15xD	20xD / 15xD	IEC 60794-1-2 E11
Crush resistance	Short term / long term	3000 / 1600	3000 / 1600	N/dm - IEC 60794-1-2 E3
Impact resistance	Wp = 1.5 J	3	3	Impact - IEC 60794-1-2 E4
Repeated bending	r = 20xD	35	35	cycles - IEC 60794-1-2 E6
Water penetration	h = 1 m, 48 h, p < 3 m	passed	passed	IEC 60794-1-22 F5B
Temperature range	Installation / service / storage	0 to +70 / -30 to +60 / -20 to +70	0 to +70 / -30 to +60 / -20 to +70	°C - IEC 60794-1-22 F1

## Optical fiber options

Fiber type	Jacket color	Typical attenuation / bandwidth reference
G.652D single-mode	Black	0.40 dB/km @1310 nm, 0.30 dB/km @1550 nm
OM1 / OM2 multi-mode	Black	OM1/OM2 multimode fibers available on request
OM3 / OM4 multi-mode	Black	OM3/OM4 multimode fibers available on request

## Combustion and route note

Fire performance route	Fca / PE outdoor cable route, where declared under CPR/DoP documentation
Sheath marking	White ink-jet print at 1 m intervals: manufacturer name, fiber count, fiber type, product code, cable type, date and meter marking
Application	Outdoor duct, underground, utility, campus backbone and anti-rodent route applications

# Identification, Marking and Ordering Logic

Standard identification information for A-DQ(ZN)(SR)2Y cable variants

## Identification

Field	Specification
Cable marking	1 m $\pm$ 1% intervals in white color by ink-jet print
Standard inscription	UPCOM <year> <fiber count> FO <fiber type> A-DQ(ZN)(SR)2Y <length marking in meter>
Outer sheath color	Black as standard for outdoor PE routes
Loose tube color	Natural
Fiber color code	1 Red, 2 Green, 3 Yellow, 4 Blue, 5 White, 6 Violet, 7 Orange, 8 Black, 9 Grey, 10 Brown, 11 Pink, 12 Turquoise; 13-24 with tracer/repeated sequence

## Cable coding system

Element	Code example	Meaning
Route	O	Outdoor
Fiber count	04 / 06 / 08 / 12 / 24	Number of optical fibers
Cable type	DI	Distribution cable family
Approx. diameter	80 / 82	8.0 mm or 8.2 mm diameter route
Tube type	SCL	Steel armored central loose tube
Fiber type	DD / A2 / B3 / M1 / M2 / M3 / M4	G.652D, G.657.A2, G.657.B3 or OM fiber type
Sheath material	P	Polyethylene
Color	BK	Black

## RFQ / production confirmation note

For project quotation, confirm fiber type, fiber count, CPR/DoP requirement, drum length, marking text, route condition and final packing. Other fiber, sheath and marking options can be produced on request.

*Technical values are subject to final production confirmation and applicable project requirements.*