



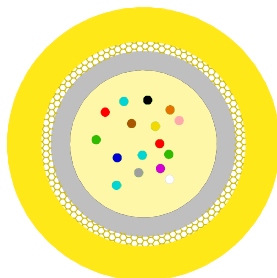
JN-SM-URE with G.657A2 200µ Fibre

A-DQ(ZN)2Y

Cable Design

Acc. to IEC 60794-5

Microduct Reinforced non-metallic Unitube Fiber Optic Cable



- not to scale -

- **Central Loose Tube:** thermoplastic material, containing up to 24 fibers and filled with a suitable gel compound. In case of 24 fibres they are grouped with a colored yarn in 12-fibre groups.
- **Water Tightness:** fully watertight construction.
- **Peripheral Strength Elements:** non-metallic strength members.
- **Outer Sheath:** high-density polyethylene compound, halogen free.

Configuration

No. of Fibers		12	24
Design		1x12	2x12
Cable Diameter	mm	2.9	
Cable Weight	kg / km	7.5	

Application

Suggested Inner Duct - Ø	mm	≥ 4.0
Temperature Range	Transportation & Storage: - 40 to + 70 °C Installation: - 10 to + 50 °C Operation: - 20 to + 60 °C	Minimum Bending Radius Repeated bending : 15 x Cable-Ø Cable bend: 10 x Cable-Ø

Main Mechanical and Environmental Characteristics













Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	250 N	$\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	1250 N / 100 mm,	$\Delta\alpha \leq 0.05$ dB
Repeated Bending	IEC 60794-1-2-E6	R=15x D, 100 cycles	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-2-E4	3 Nm, R= 200 mm, 3 spots	$\Delta\alpha \leq 0.05$ dB
Cable Bend	IEC 60794-1-2-E11	R=10x D	$\Delta\alpha \leq 0.05$ dB
Temperature cycle	IEC 60794-1-2-F1	-20°C - +60°C -40°C - +70°C	$\Delta\alpha \leq 0.05$ dB $\Delta\alpha$ reversible.
Water penetration	IEC 60794-1-2-F5B	Sample =3m, column is 1m	No water leakage in 24h

All optical measurements at 1550 nm.





Identification and Packing

Fiber Colors

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	red	green	blue	yellow	white	grey	brown	violet	aqua	black	orange	pink
												

Yarn Colors

No.	1	2
Color	red	white
		

Sheath Color: yellow

Sheath Marking: The outer sheath is marked in 1 meter intervals as follows:

DRAKA <production year> URE29 A-DQ(ZN)2Y 24xG.657A2 BBXS200 <length marking in meters>

Packing: Wooden drums with protection.

Delivery Lengths: Standard delivery length: 2 km, 4 km.