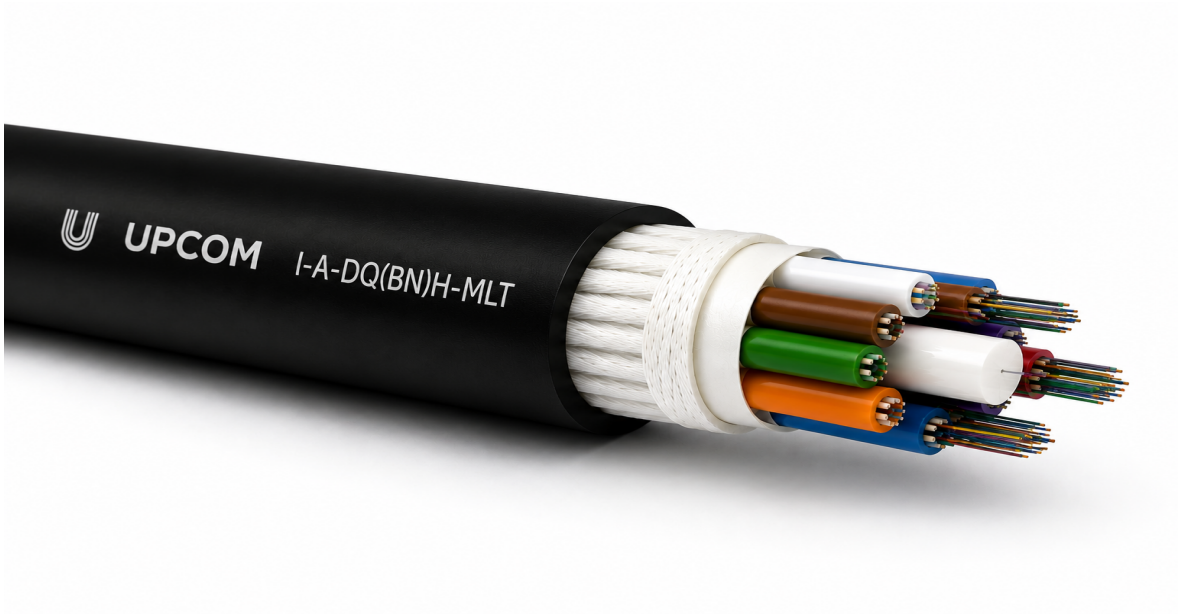
Multi Loose Tube Unarmored Cable 4-192F

I-A-DQ(BN)H-MLT

LSZH

Indoor / outdoor dielectric loose tube cable for campus, duct and protected backbone routes.



CORE PRODUCT DATA

Cable family	Indoor / outdoor multi loose tube dielectric cable
Code designation	I-A-DQ(BN)H-MLT
Fiber count range	4F to 192F
Tube construction	Colored PBT loose tubes around central strength member
Water blocking	Water swellable tape and dry core structure
Reinforcement	Glass yarn strength members
Outer sheath	LSZH / HFFR outer jacket
Typical installation	Campus backbone, ducts, conduits and inter-building links

Numbered Cable Cross Section

I-A-DQ(BN)H-MLT - multi loose tube unarmored LSZH cable

1	LSZH outer sheath
2	Glass yarn reinforcement
3	Water swellable tape
4	Colored PBT loose tubes
5	Optical fibers
6	Central strength member

Multi loose tube construction is preferred where higher fiber counts, dependable water blocking and stable backbone routing are required. The dielectric structure avoids metallic components while the LSZH sheath supports indoor transition areas and enclosed installation spaces.

Technical Construction and Performance

Item	4-24F	48-96F	144-192F
Loose tube material	PBT	PBT	PBT
Water blocking	Swellable tape	Swellable tape	Swellable tape
Strength members	Glass yarn	Glass yarn	Glass yarn
Outer sheath	LSZH	LSZH	LSZH
Cable diameter	10-12 mm	12-15 mm	15-18 mm
Fiber type	G652D / G657A1	G652D / G657A1	G652D / G657A1
Installation route	Indoor / outdoor	Indoor / outdoor	Indoor / outdoor

LSZH Route Design
Supports indoor transition areas where halogen-free sheath behavior is required.

Dielectric Construction
Non-metallic structure avoids electromagnetic interference and grounding concerns.

Water Blocking
Swellable tape and dry core structure help prevent longitudinal water penetration.

Backbone Deployment
Suitable for campus, telecom and building-to-building distribution routes.

Mechanical and Environmental Characteristics

Test	Performance	Standard
Tensile strength	Up to 4000 N	IEC 60794
Crush resistance	2000 N	IEC 60794-1-2 E3
Minimum bending radius	20 x cable diameter	IEC 60794
Operating temperature	-30°C to +70°C	IEC 60794
Water penetration	Passed	IEC 60794
UV resistance	Suitable for outdoor use	Outdoor route

The cable structure is optimized for protected outdoor installations, campus backbone links and enclosed duct systems where LSZH behavior is preferred over PE jacket construction. Glass yarn reinforcement improves tensile stability while maintaining a fully dielectric architecture.

Identification, Marking and Ordering Logic

Field	Specification
Cable marking	White inkjet print at 1 m intervals
Outer sheath color	Black
Fiber type options	G652D, G657A1, G657A2
Installation type	Indoor / outdoor protected routes
Standard marking	UPCOM + fiber count + product code + meter marking

For project quotation and production confirmation, verify fiber count, fiber type, CPR requirement, drum length, route condition and requested sheath marking before final order approval.

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