



# **LIACC FO Access cable MTE 2-48 cores, Outdoor, 1500N**



\*All images are indicative

## **Features**

Outdoor and duct installation  
All Dielectric Non-Metallic design  
Light weight

## **Standards of reference and applications**

IEC 60793, IEC 60794  
Intrabuilding Voice and Data/LAN Communication Networks  
Installation in Ducts & Conduits  
Building access in FTTx networks

## Installation Features

**Store at** -40 to +70 °C

**Install at** -5 to +50 °C

**Operate at** -40 to +60 °C

**Bend minimum** 20 times O.D. (installation)

**Bend minimum** 15 times O.D. (static)

## Design

**Optical fiber** : 125/250µm Single Mode or Multi Mode

**Buffer** : PBTP loose tube filled with jelly (nominal diameter 2.3mm).

**Central member** : FRP (nominal diameter 2.0mm).

**Assembling** : tubes and fillers assembled together according to “Colour Code” table

**Wrapping** : water blocking tape.

**Protection** : anti-rodent glass yarns.

**Outer jacket** : Black HDPE material, UV resistant (nominal thickness 1.5mm)

**Marking** : APS Finland - ww/yy - Fiber Optic Cable MTE fiber count x fiber type - P/N  
- lot + meter

## Environmental properties

**UV resistant** : UL1581, IEC11801

## Mechanical properties

**Pulling tension** : 1500 N ( $\Delta\alpha$  reversible, IEC 60794-1-2-E1)

**Crush** : 2000N/100mm ( $\Delta\alpha$  reversible, IEC 60794-1-2-E3)

**Impact** : 10J ( $\Delta\alpha$  reversible, IEC 60794-1-2-E4)

**Water penetration** : 3m cable, 1m water, 24 hours (IEC 60794-1-2-F5)

## Colour code of tubes and fibers

	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colours	Blue	Orange	Green	Brown	Grey	White (natural)						
Fiber Colours	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
Fillers	Black											

## Fiber Optic characteristics

See detailed specification of optical fibers.

## Ordering and delivery information

Fiber Count	Part Number	No. of tubes	Fibers per tube	Fillers	O.D. (mm)	Weight (kg/km)	Packaging						
2	MTE1502xxoo	1	2	5	11.5	60	Drum						
4	MTE1504xxoo	1	4	5	11.5	60	Drum						
8	MTE1508xxoo	1	8	5	11.5	60	Drum						
12	MTE1512xxoo	1	12	5	11.5	60	Drum						
24	MTE15243xxoo	3	8	3	11.5	60	Drum						
24	MTE15242xxoo	2	12	4	11.5	60	Drum						
48	MTE1548xxoo	4	12	2	11.5	60	Drum						

xx = fiber type

ex. OS2=S2, OM1=M1, OM2=M2, OM3=M3, OM4=M4

oo = delivery length

ex. 2000m=D2, 4000m=D4

## Recommended connectivity

**Pigtails** : APS LIIN-25 series

**Patch cords** : APS LIIN-25 series

**Adapters** : APS LIIN-25 series

**Patch Panels** : APS LIIN-25 series

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changes to the documents at any time, without prior notice.

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## **LIACC FO Access cable UT9H 2-24 cores, Outdoor, 1500N**



\*All images are indicative

### **Features**

Outdoor and duct installation

Metallic armour and moisture barrier

Compact and light weight

## **Standards of reference and applications**

IEC 60793, IEC 60794

Intrabuilding Voice and Data/LAN Communication Networks

Installation in Ducts & Conduits

Building access in FTTx networks

## Installation Features

**Store at** -30 to +70 °C

**Install at** -5 to +50 °C, **Bend minimum** 20 times O.D. (installation)

**Operate at** -45 to +60 °C, **Bend minimum** 15 times O.D. (static)

## Design

**Optical fiber** : 125/250µm Single Mode or Multi Mode

**Buffer** : PBTP loose tube filled with jelly (nominal diameter 2.3mm).

**Protection** : anti-rodent glass yarns.

**Armour**: corrugated steel tape.

**Outer jacket** : Black LSZH material, UV resistant

**Marking** : APS Finland - ww/yy - Armoured Fiber Optic Cable UT9H fiber count x fiber type - P/N - lot + meter

## Environmental properties

**Degree of acidity of gases** : IEC 60754-1, IEC 60754-2

**Halogen acid gas** : IEC 60754-1, IEC 60754-2

**Smoke Emission** : IEC 61034-2, EN 50268-2

**Toxicity of evolved gas** : EN 50305 9.2

**Flame retardant** : IEC 60332-1-2

**Fire retardant** : IEC 60332-3-24 Cat.C

**UV resistant** : UL1581, IEC11801

## Mechanical properties

**Pulling tension** : 1500 N ( $\Delta\alpha$  reversible, IEC 60794-1-2-E1)

**Crush** : 1000N/100mm ( $\Delta\alpha$  reversible, IEC 60794-1-2-E3)

**Impact** : 10J ( $\Delta\alpha$  reversible, IEC 60794-1-2-E4)

**Water penetration** : 3m cable, 1m water, 24 hours (IEC 60794-1-2-F5)

## Colour code of fibers

	1	2	3	4	5	6	7	8	9	10	11	12
Bundle A	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
	13	14	15	16	17	18	19	20	21	22	23	24
Bundle B	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## Fiber Optic characteristics

See detailed specification of optical fibers.

## Ordering and delivery information

<b>Fiber Count</b>	<b>Part Number</b>	<b>No. of tubes</b>	<b>Fibers per tube</b>	<b>Nominal O.D. (mm)</b>	<b>Weight (kg/km)</b>	<b>Packaging</b>
2	UT9H02xxoo	1	2	8.5	85	Drum
4	UT9H04xxoo	1	4	8.5	85	Drum
8	UT9H08xxoo	1	8	8.5	85	Drum
12	UT9H12xxoo	1	12	8.5	85	Drum
24	UT9H24xxoo	1	24	8.5	85	Drum

xx = fiber type

oo = delivery length

OS2=S2, OM1=M1, OM2=M2, OM3=M3, OM4=M4

2000m=D2

## Recommended connectivity

**Pigtails** : APS LIIN-25 series

**Patch cords** : APS LIIN-25 series

**Adapters** : APS LIIN-25 series

**Patch Panels** : APS LIIN-25 series

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