



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

Fiber Count	Part Number	No. of tubes	Fibers per tube	Nominal O.D. (mm)	Weight (kg/km)	Packaging
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 OS2=S2, OM1=M1, OM2=M2, OM3=M3, OM4=M4
oo = delivery length 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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LIACC FO Access cable UTAE 2-24 cores, Direct Burial, SWA Armoured



*All images are indicative

Features

Outdoor, duct and direct burial installation
Metallic armour and moisture barrier

Compact and light weight

Standards of reference and applications

IEC 60793, IEC 60794

Telecommunication backbones

Intrabuilding Voice and Data/LAN Communication Networks

Installation in Ducts & Conduits or Directly Buried

Building access in FTTx networks

Installation Features

Store at -40 to +70 °C

Install at -10 to +60 °C, **Bend minimum** 20 times O.D. (installation)

Operate at -40 to +70 °C, **Bend minimum** 10 times O.D. (static)

Design

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

Buffer : PBTP loose tube filled with jelly (nominal diameter 3.0mm).

Inner strength member : aramide yarns.

Inner jacket : PE black, nominal thickness 1.0mm.

Armour: steel wire, one layer, coverage ≥80%.

Outer jacket : PE black, UV resistant, nominal thickness 1.5mm.

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

Environmental properties

UV resistant : UL1581, IEC11801

Mechanical properties

Pulling tension : max 5000 N ($\Delta\alpha$ reversible, IEC 60794-1-2-E1)

Crush : 3000N/100mm ($\Delta\alpha$ reversible, IEC 60794-1-2-E3)

Impact : 15J ($\Delta\alpha$ 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
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue/black	Orange/black	Green/black	Brown/black	Grey/black	White/black	Red/black	Natural	Yellow/black	Violet/black	Pink/black	Aqua/black

Fiber Optic characteristics

See detailed specification of optical fibers.

Ordering and delivery information

Fiber Count	Part Number	No. of tubes	Fibers per tube	Nominal O.D. (mm)	Weight (kg/km)	Packaging (*)
2	UTAE02xxoo	1	2	10.3	178	Drum
4	UTAE04xxoo	1	4	10.3	178	Drum
8	UTAE08xxoo	1	8	10.3	178	Drum
12	UTAE12xxoo	1	12	10.3	178	Drum
24	UTAE24xxoo	1	24	10.3	178	Drum

xx = fiber type OS2=S2, OM1=M1, OM2=M2, OM3=M3, OM4=M4, OM5=M5
oo = delivery length 2000m=D2

(*) a tolerance of ±5% applies to the delivery length.

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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