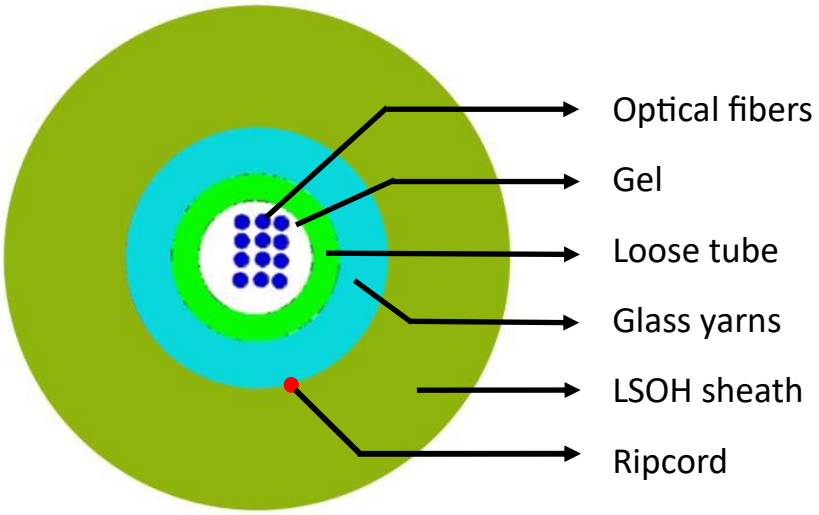
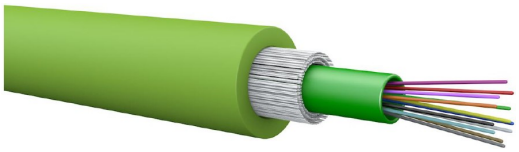
Product Information

AE25: Indoor-Outdoor cable, central tube, gel filled U-DQ(ZN)BH, 3000N, the equivalent of ZW-NOTKtcdD, 2÷24 single-mode or multi-mode fibers. Outer sheath: LSOH, UV stabilised. Glass yarns as reinforcement of the cable construction and standard antirodent protection. Fully dielectric construction. CPR: B2ca

No. Card: PI_1025HXY1.1_01.25





$B2_{ca}$ CPR

Application

Universal: Indoor—Outdoor.
For building telecommunication networks, CATV and city surveillance networks.
FTTH subscriber connections.
For Structured Cabling System networks.
Very high resistance to fire reaction by CPR. Euroclass B2ca - s1,d1,a1.

Standards

ISO 11801 druga edycja	PN EN 50173	IEC PN EN 60793-1-1	IEC PN EN 60793-2-10	IEC PN EN 60794-2
IEC PN EN 60794-3	IEC PN EN 62949	IEC PN EN 60332-1	IEC PN EN 60332-3-24	IEC PN EN 60754-1
IEC PN EN 60754-2	IEC PN EN 61034-2	PN EN 50290-2-27	IEC PN EN 60794-6-10	

Fire properties

IEC, PN EN 60332-1-2	Single vertical cable test
IEC, PN EN 60332-3-24	Bundle vertical cable test
IEC, PN EN 60754-1	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content
IEC, PN EN 60754-2	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
IEC, PN EN 61034-2	Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements
PN EN 50575	Class B2ca - s1,d1,a1
Fire load	1,220 MJ/km

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Construction

Loose tube	Central tube with ϕ 2.8mm diameter, thixotropic gel, from 2÷24 fibers
Fiber colour coding	Colour: RD GRN BL YE WH GRY BR VI TU BL OR PI Fibers 13÷24 additionally marked with black stripes, white tube instead of black tube
Reinforcement	Glass yarns
Rodent resistant	Yes, glass yarns
Sheat	LSOH, UV-stabilised, IEC 50290-2-27

Mechanical properties

Property	Testing methology	Value
Outer diameter	-	Ø 7.5 mm
Nominal weight	-	73 kg/km
Maximun tensile strength	E1	3000 N (fiber strain ≤ 0.6%)
Tensile strength (dynamic, static)	E1	1000 N (fiber strain ≤ 0.2%)
Crush resistance	E3	3000 N/dm
Impact	E7	20 Nm
Torsion	E7	5 cycles ± 1 turn
Minimum bending radius (static, dynamic))	E11	R=75 mm, R=150 mm
Water penetration	F5B	No water on free end
Temperature range	F1	Storage: from –30°C to +70°C Installation: from –15°C to +40°C Operation: from –40°C to +70°C

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Performance/Variants

Index	DoP numbers	No of fibres	Cable description	Type of fibre
1025H621.1	515193M5_01.22	4	BKT FO cable U-DQ(ZN)BH 4E9/125 G657A1 LSOH 3000N B2ca Class AE25	OS2 G657A1
1025H641.1	515195M5_01.22	8	BKT FO cable U-DQ(ZN)BH 8E9/125 G657A1 LSOH 3000N B2ca Class AE25	OS2 G657A1
1025H661.1	515196M5_01.22	12	BKT FO cable U-DQ(ZN)BH 12E9/125 G657A1 LSOH 3000N B2ca Class AE25	OS2 G657A1
1025H681.1	515198M5_01.22	24	BKT FO cable U-DQ(ZN)BH 24E9/125 G657A1 LSOH 3000N B2ca Class AE25	OS2 G657A1
1025H321.1	515153M5_01.19	4	BKT FO cable U-DQ(ZN)BH 4G 50/125 OM2 BB LSOH 3000N B2ca Class AE25	OM2 Max Cap BB
1025H341.1	515155M5_01.19	8	BKT FO cable U-DQ(ZN)BH 8G 50/125 OM2 BB LSOH 3000N B2ca Class AE25	OM2 Max Cap BB
1025H361.1	515156M5_01.19	12	BKT FO cable U-DQ(ZN)BH 12G 50/125 OM2 BB LSOH 3000N B2ca Class AE25	OM2 Max Cap BB
1025H381.1	515158M5_01.19	24	BKT FO cable U-DQ(ZN)BH 24G 50/125 OM2 BB LSOH 3000N B2ca Class AE25	OM2 Max Cap BB
1025H421.1	515163M5_01.19	4	BKT FO cable U-DQ(ZN)BH 4G 50/125 OM3 Max Cap BB 300 LSOH 3000N B2ca Class AE25	OM3 MaxCap 300
1025H441.1	515165M5_01.19	8	BKT FO cable U-DQ(ZN)BH 8G 50/125 OM3 Max Cap BB 300 LSOH 3000N B2ca Class AE25	OM3 MaxCap 300
1025H461.1	515166M5_01.19	12	BKT FO cable U-DQ(ZN)BH 12G 50/125 OM3 Max Cap BB 300 LSOH 3000N B2ca Class AE25	OM3 MaxCap 300
1025H481.1	515168M5_01.19	24	BKT FO cable U-DQ(ZN)BH 24G 50/125 OM3 Max Cap BB 300 LSOH 3000N B2ca Class AE25	OM3 MaxCap 300
1025H521.1	515173M5_01.19	4	BKT FO cable U-DQ(ZN)BH 4G 50/125 OM4 Max Cap BB 550 LSOH 3000N B2ca Class AE25	OM4 MaxCap 550
1025H541.1	515175M5_01.19	8	BKT FO cable U-DQ(ZN)BH 8G 50/125 OM4 Max Cap BB 550 LSOH 3000N B2ca Class AE25	OM4 MaxCap 550
1025H561.1	515176M5_01.19	12	BKT FO cable U-DQ(ZN)BH 12G 50/125 OM4 Max Cap BB 550 LSOH 3000N B2ca Class AE25	OM4 MaxCap 550
1025H581.1	515178M5_01.19	24	BKT FO cable U-DQ(ZN)BH 24G 50/125 OM4 Max Cap BB 550 LSOH 3000N B2ca Class AE25	OM4 MaxCap 550
1025HE21.1	515183M5_01.19	4	BKT FO cable U-DQ(ZN)BH 4G 50/125 OM5 Wide Cap LSOH 3000N B2ca Class AE25	OM5 Wide Cap
1025HE41.1	515185M5_01.19	8	BKT FO cable U-DQ(ZN)BH 8G 50/125 OM5 Wide Cap LSOH 3000N B2ca Class AE25	OM5 Wide Cap
1025HE61.1	515186M5_01.19	12	BKT FO cable U-DQ(ZN)BH 12G 50/125 OM5 Wide Cap LSOH 3000N B2ca Class AE25	OM5 Wide Cap
1025HE81.1	515188M5_01.19	24	BKT FO cable U-DQ(ZN)BH 24G 50/125 OM5 Wide Cap LSOH 3000N B2ca Class AE25	OM5 Wide Cap

Markings

Sheat colour	For fibers SM G657A1, G657A2 - yellow (RAL 1018) For fibers MaxCap - BB OM3 - aqua (RAL 6027) For fibers MaxCap - BB OM4 -erika-violet (RAL 4003) For fibers WideCap OM5 - green limon
Sheat marking	Manufacturer, cable type, number and type of FO fibers in the cable, months and year of production, meter mark.

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