

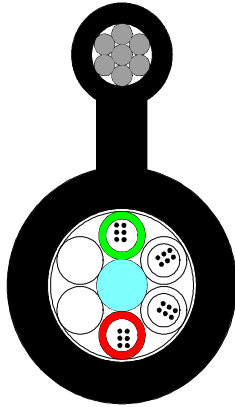


O06: 2 - 48 fibre aerial cable for medium spans lengths

Self supporting, figure 8 design

EN 187 100

IEC 60794



Application

Telecom trunk and access lines
CATV trunk lines
Data Communication connections

Standards

IEC 60794-3
IEC 60794-3-20
IEC 60794-4
ISO 11801 2nd edition
EN 50173-1:2002

General

This cable can be used for spans of up to 200 m depending of the loading conditions

Construction

Suspension strand	7 x 1.6 mm galvanised steel strand, with covering to \varnothing 6.8 mm
Web	Nominally: H: 3 mm, B: 2 mm
Central strength member	\varnothing 2.5 mm FRP rod
Loose tube	\varnothing 2.3 mm loose tubes with 2 – 8 fibre
Water blocking	Jelly filling
Wrapping	Polyester tape
Sheath	2.0 mm black MDPE, IEC 60811, IEC 60708



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Fire rating

None

Physical properties

IEC 60974-1-2

Nominal outer diameter cable	-	11.5 mm
Nominal height of cable	-	21 mm
Nominal weight	-	220 kg/km
Min. Bending radius	E11	R = 230 mm
Tensile strength (dynamic)	E1	>20 kN
Tensile strength (permanent)	E1	14 kN
Compressive strength (crush)	E3	3000N
Impact	E4	25 Nm
Temperature range	F1	-40°C to +70°C
Water penetration	F5	No water on free end
Nominal EA		2700 kN
Coefficient of linear expansion		13 mm/km/°C
Maximum span length		200 m

Stringing and loading data

Span [m]	80	100	150	200
Initial sag (2 % of span length) [m]	1.6	2.0	3.0	4.0
Nominal stringing force [kN]	1.1	1.4	2.0	2.7
Conditions at an external load of 20 N/m (ice or wind):				
Cable sag [m]	2.7	3.6	5.9	8.5
Cable tension [kN]	6.5	7.7	10.4	12.3
Cable strain [%]	0.2	0.3	0.4	0.5
Fibre strain [%]	0.0	0.0	0.0	0.0
Conditions at an external load of 30 N/m (ice or wind):				
Cable sag [m]	3.0	4.0	6.7	-
Cable tension [kN]	8.5	10.0	13.5	-
Cable strain [%]	0.3	0.4	0.5	-
Fibre strain [%]	0.0	0.0	0.0	-
Conditions at an external load of 40 N/m (ice or wind):				
Cable sag [m]	3.3	4.3	-	-
Cable tension [kN]	10.2	12.1	-	-
Cable strain [%]	0.4	0.4	-	-
Fibre strain [%]	0.0	0.0	-	-



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Transmission characteristics

IEC 60793-2

Refer to the fibre data sheets

Type designation cross reference

Draka Denmark	LTnnnmm-33-xxx, nnn is the fibre count, mm is the fibre type
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