

Fiber TypesTight Buffer Optical Characteristics

European Part Number Coding, Position 5	Fiber-Type	Mode-Fie]d/ Cladding Diameter (μm)	Wave-length (nm)	Attenuation Average/max. (dB/km)	Dispersion (ps/nm-km)	PMD (ps/km)	Cable Cut-off Wave-length (nm)	Min. Bending Radius (mm)
Characteristic	s (cabled) Sin	gle-Mode • Ma	tched-Cladde	d Optical Fibe	rs according	to ITU		
A	9/125 G.657A1 OS2	8.9 ± 0.4 125.0 ± 0.3	1310 1550 1625	0.35/0.4 0.21/0.3 0.24/0.4	≤ 3,5 ≤ 18,0	≤ 0.2 ^A	≤ 1260	10
F	9/125 G.657A2 OS2	8.9 ± 0.4 125.0 ± 0.3	1310 1550 1625	0.35/0.4 0.21/0.3 0.24/0.4	≤ 3.5 ≤ 18.0	≤ 0.2 ^A	≤ 1260	7.5
I	9/125 G.657B3 OS2	8.8 ± 0.4 125.0 ± 0.3	1310 1550 1625	0.35/0.4 0.22/0.3 0.24/0.4	≤ 3.5 ≤ 18.0	≤ 0.2 ^A	≤ 1260	5.0

Note A: Link design value

European Part Number Coding, Position 5	Fiber-Type	Core/Cladding Diameter (µm)	Wave-length (nm)	Attenuation Average/max. (dB/km)	Bandwidth (MHz/km)		ernet ance (m) 10 GBE	Num. Apert. (µm)	Min. Bending Radius (mm)
Characteristic	s (cabled) Mul	lti-Mode • Gra	ded-Index Opt	tical Fibers ac	cording to IE	C 6079	3		
1	62,5/125 OM1	62.5 ± 2.5 125.0 ± 1.0	850 1300	2,7/3,2 0,6/1,1	≥ 200 ≥ 600	275 550	33 300	0.275 ± 0.015	25
2	50/125 O M 2	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.4/3.0 0.7/1.0	≥ 500 ≥ 500	600 600	82 300	0.200 ± 0.015	25
3	50/125 O M 3	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.5/3.0 0.5/1.0	≥ 1500 ≥ 500	900 550	300 300	0.200 ± 0.015	25
D	50/125 OM3 Flex	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.5/3.0 0.5/1.0	≥ 1500 ≥ 500	900 550	300 300	0,200 ± 0,015	7.5
6	50/125 OM4	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.5/3.0 0.5/1.0	≥ 6000 ≥ 500	900 550	550 300	0,200 ± 0,015	25
E	50/125 OM4 Flex	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.5/3.0 0.5/1.0	≥ 6000 ≥ 500	900 550	550 300	0.200 ± 0.015	7.5



Fiber TypesLoose Tube Optical Characteristics

European Part Number Coding, Position 5	Fiber-Type	Mode-Field/ Cladding Diameter (μm)	Wave-length (nm)	Attenuation average/max. (dB/km)	Dispersion (ps/nm-km)	PMD (ps/km)	Cable Cut-off Wave-length (nm)
Characteristics	(cabled) Single	-Mode • Matche	ed-Cladded Opt	ical Fibers acco	ording to ITU		
8	9/125 G.652D OS2	9.2 ± 0.4 125.0 ± 0.7	1310 1550	0.32/0.40 0.19/0.22	≤ 3.5 ≤ 18.0	≤ 0.2 ^A	≤ 1260
7	9/125 G.655 C & D	8.4 ± 0.6 125.0 ± 1.0	1550	0.25/0.30	3.5 – 8.5	≤ 0.1 ^A	≤ 1260

Note A: Link design value

European Part Number	Fiber Tone	Core/	Wave-	Attenuation Bandwidth		Ethernet Performance (m)		Num. Apert.	Refractive
Coding, Position 5	Fiber-Type	Cladding Diameter (µm)	length (nm)	average/max. (dB/km)	(MHz/km)	1 GBE	10 GBE	(µm)	Index
haracteristics	(cabled) Multi-	-Mode • Graded-	Index O	ptical Fibers ac	cording to IEC	60793		•	•
1	62,5/125 OM1	62.5 ± 2.5 125.0 ± 1.0	850 1300	2.7/3.2 0.6/1.1	≥ 200 ≥ 600	275 550	33 300	0.275 ± 0.015	1,495 1,490
2	50/125 OM2	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.4/3.0 0.7/1.0	≥ 500 ≥ 500	600 600	82 300	0.200 ± 0.015	1.481 1.476
3	50/125 OM3	50.0 ± 2.5 125.0 ± 1.0	850 1300	2.5/3.0 0.5/1.0	≥ 1500 ≥ 500	900 550	300 300.	0.200 ± 0.015	1.482 1.477
6	50/125 OM4	50.0 ± 2.5 125.0 ± 1.0	850 1300	2,5/3,0 0,5/1,0	≥ 6000 ≥ 500	900 550	550 300	0,200 ± 0,015	1,482 1,477



Outdoor Multi Loose Tube Cable with All Dielectric Self Supporting, Single Jacket

GAAG, GAAD, GAAE, GAAF

A-DQ(ZN)2Y(T)



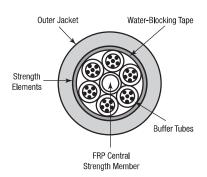
Applications

- All Dielectric Self Supporting cable (ADSS) for Outdoor use
- Suitable for installation between poles with a maximum span of 150 meters for GAAG, GAAD and GAAE, and 110 meter for GAAF
- Initial sag at 20°C: 1% of span

Features & Benefits

- Available in sizes from 6 to 144 fibers
- Jelly filled (non-dripping and silicon-free) loose tubes with primary coated optical fibres (Ø 250 \pm 15 μ m)
- Full dielectric construction, no grounding required
- Aramid yarns for tensile strength
- Installation-friendly because of the cable core kept free of grease (dry interstices)
- Length marking in meters for easy

Cross Section



Specifications

IEC 60794-1-2		
Crush Resistance (E3):	20 kN/m	
Min. Bend Radius dynamic (E6):	20 x Ø	
Min. Bend Radius static (E11):	15 x Ø	
Min. Bend Radius fibers:	25 mm	
Temperature Range (F1):		
– Transport/Storage	-30°C to +70°C	
Installation	-5°C to +50°C	
Operation	-30°C to +70°C	
Watertightness (F5):	Pass	



Characteristics

Loose Tube	Fiber Count	Diameter Tube (mm)	Max. Fibers per Tube	Water Tight- ness in Core	Diameter (mm)	Weight (kg/km)	Tensile Strength (short term) N	Tensile Strength (permanent) N	Fire Load (kJ/m)
IEC 60794-1-2							E1	E1	
GAAG*xx	6 to 36	1,9	6	Dry	10,3	72	6000	3000	3000
GAAD*xx	12 to 72	2.5	12	Dry	12.2	99	7000	3500	4000
GAAE*xx	84 to 96	2,5	12	Dry	13,8	132	8000	4000	4400
GAAF*xx	108 to 144	2.5	12	Dry	17.0	192	8000	4000	8000

Ordering Information

Fib T (O)		Dry Core								
Fiber Type/Count	6	12	18	24	36					
62.5/125-0M1	GAAG106	GAAG112	GAAG118	GAAG124	GAAG136					
50/125-0M2 BW 600/1200	GAAG206	GAAG212	GAAG218	GAAG224	GAAG236					
50/125-0M3	GAAG306	GAAG312	GAAG318	GAAG324	GAAG336					
50/125-0M4	GAAG606	GAAG612	GAAG618	GAAG624	GAAG636					
9/125 ITU G.652D	GAAG806	GAAG812	GAAG818	GAAG824	GAAG836					
9/125 ITU G.655 C&D	GAAG706	GAAG712	GAAG718	GAAG724	GAAG736					
Std. plywood reel (non-returnable)	Ø 1250 x 688 mm, Weight 93,0 kg									
Std. delivery length	2100 ± 100 m									

File of Toron (Occurs)	Dry Core								
Fiber Type/Count	12	24	36	48	60	72			
62.5/125-0 M 1	GAAD112	GAAD124	GAAD136	GAAD148	GAAD160	GAAD172			
50/125-0M2 BW 600/1200	GAAD212	GAAD224	GAAD236	GAAD248	GAAD260	GAAD272			
50/125-0M3	GAAD312	GAAD324	GAAD336	GAAD348	GAAD360	GAAD372			
50/125-0M4	GAAD612	GAAD624	GAAD636	GAAD648	GAAD660	GAAD672			
9/125 ITU G.652D	GAAD812	GAAD824	GAAD836	GAAD848	GAAD860	GAAD872			
9/125 JTU G.655 C & D	GAAD712	GAAD724	GAAD736	GAAD748	GAAD760	GAAD772			
Std. plywood reel (non-returnable)		Ø 1250 x 688 mm, Weight 93.0 kg							
Std. delivery length		2100 ± 100 m							

Fiber Ture / Occurs		Dry Core								
Fiber Type/Count	84	96	108	120	132	144				
62.5/125-0M1	GAAE184	GAAE196	GAAF108	GAAF120	GAAF132	GAAF144				
50/125-0M2 BW 600/1200	GAAE284	GAAE296	GAAF208	GAAF220	GAAF232	GAAF244				
50/125-0M3	GAAE384	GAAE396	GAAF308	GAAF320	GAAF332	GAAF344				
50/125-0 M 4	GAAE684	GAAE696	GAAF608	GAAF620	GAAF632	GAAF644				
9/125 ITU G.652D	GAAE884	GAAE896	GAAF808	GAAF820	GAAF832	GAAF844				
9/125 ITU G.655 C & D	GAAE784	GAAE796	GAAF708	GAAF720	GAAF732	GAAF744				
Std. plywood reel (non-returnable)			Ø 1400 x 900 mm	, Weight 120,0 kg						
Std. delivery length		2100 ± 100 m								

Fiber Color Coding

No.	
1	Red
2	Green
3	Blue

No.	
4	Yellow
5	Violet
6	Pink

No.	
7	Orange
8	Black
9	Grey

No.	
10	Brown
11	White
12	Aqua

Tube Color Coding

No.	
1	Red
2	Green
3-12	White