

Outdoor Multi Loose Tube Cable with Rodent Protection, Single Jacket

GBRG, GBRD, GBRE, GBRF
GDRG, GDRD, GDRE, GDRF

A-DQ(ZN)B2Y
A-DF(ZN)B2Y



Applications

- For outdoor and indoor use in structured (data) wiring systems such as campus backbone
- For outdoor and indoor use in networks for telecom, cable TV and/or broadcast
- Easy to install in ducts, tunnels and trenches by means of compressed air or pulling wire
- Suitable for direct burial

Features & Benefits

- Available in sizes from 2 to 144 fibers
- Jelly filled (non-dripping and silicon-free) loose tubes with primary coated optical fibers ($\text{Ø } 250 \pm 15 \mu\text{m}$)
- Full dielectric construction, no grounding required
- Installation-friendly thanks to the cable core which is kept free of grease (dry interstices) for GBR types
- Rodent protected by means of Glass Yarn Strength Elements
- Length marking in meters for easy determination of the cable length

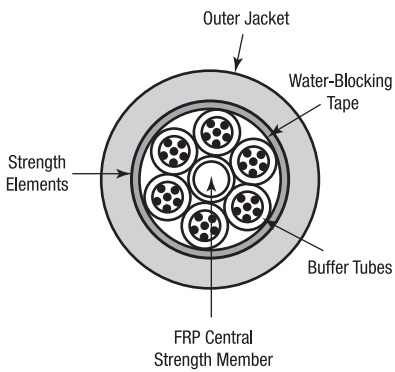
Specifications

IEC 60794-1-2

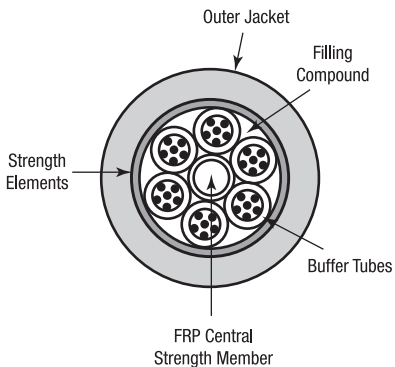
Crush Resistance (E3):	20 kN/m
Min. Bend Radius dynamic (E6):	20 x Ø
Min. Bend Radius static (E11):	15 x Ø
Min. Bend Radius fibers:	25 mm
Temperature Range (F1):	
- Transport/Storage	-30°C to +70°C
- Installation	-5°C to +50°C
- Operation	-30°C to +70°C
Watertightness (F5):	Pass

Cross Section

GBR



GDR





Characteristics

Loose Tube	Fiber Count	Diameter Tube (mm)	Max. Fibers per Tube	Water Tightness 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	
GBRG*xx	6 to 36	1.9	6	Dry	11.8	105	6000	3000	3200
GDRG*xx	6 to 36	1.9	6	Filled	11.8	107	6000	3000	3600
GBRD*xx	12 to 72	2.5	12	Dry	13.7	145	7000	3500	4600
GDRD*xx	12 to 72	2.5	12	Filled	13.7	147	7000	3500	5000
GBRE*xx	84 to 96	2.5	12	Dry	15.3	170	8000	4000	4900
GDRE*xx	84 to 96	2.5	12	Filled	15.3	174	8000	4000	5500
GBRF*xx	108 to 144	2.5	12	Dry	18.5	248	8000	4000	7700
GDRF*xx	108 to 144	2.5	12	Filled	18.5	254	8000	4000	8600

Ordering Information

Fiber Type/Count	Dry Core					Filled Core				
	6	12	18	24	36	6	12	18	24	36
62.5/125-OM1	GBRG106	GBRG112	GBRG118	GBRG124	GBRG136	GDRG106	GDRG112	GDRG118	GDRG124	GDRG136
50/125-OM2	GBRG206	GBRG212	GBRG218	GBRG224	GBRG236	GDRG206	GDRG212	GDRG218	GDRG224	GDRG236
50/125-OM3	GBRG306	GBRG312	GBRG318	GBRG324	GBRG336	GDRG306	GDRG312	GDRG318	GDRG324	GDRG336
50/125-OM4	GBRG606	GBRG612	GBRG618	GBRG624	GBRG636	GDRG606	GDRG612	GDRG618	GDRG624	GDRG636
9/125 ITU G.652D	GBRG806	GBRG812	GBRG818	GBRG824	GBRG836	GDRG806	GDRG812	GDRG818	GDRG824	GDRG836
9/125 ITU G.655 C & D	GBRG706	GBRG712	GBRG718	GBRG724	GBRG736	GDRG706	GDRG712	GDRG718	GDRG724	GDRG736
Std. plywood reel (non-returnable)	Ø 1250 x 688 mm, Weight 93.0 kg					Ø 1250 x 688 mm, Weight 93.0 kg				
Std. delivery length	2100 ± 100 m					2100 ± 100 m				

Fiber Type/Count	Dry Core						Filled Core					
	12	24	36	48	60	72	12	24	36	48	60	72
62.5/125-OM1	GBRD112	GBRD124	GBRD136	GBRD148	GBRD160	GBRD172	GDRD112	GDRD124	GDRD136	GDRD148	GDRD160	GDRD172
50/125-OM2	GBRD212	GBRD224	GBRD236	GBRD248	GBRD260	GBRD272	GDRD212	GDRD224	GDRD236	GDRD248	GDRD260	GDRD272
50/125-OM3	GBRD312	GBRD324	GBRD336	GBRD348	GBRD360	GBRD372	GDRD312	GDRD324	GDRD336	GDRD348	GDRD360	GDRD372
50/125-OM4	GBRD612	GBRD624	GBRD636	GBRD648	GBRD660	GBRD672	GDRD612	GDRD624	GDRD636	GDRD648	GDRD660	GDRD672
9/125 ITU G.652D	GBRD812	GBRD824	GBRD836	GBRD848	GBRD860	GBRD872	GDRD812	GDRD824	GDRD836	GDRD848	GDRD860	GDRD872
9/125 ITU G.655 C & D	GBRD712	GBRD724	GBRD736	GBRD748	GBRD760	GBRD772	GDRD712	GDRD724	GDRD736	GDRD748	GDRD760	GDRD772
Std. plywood reel (non-returnable)	Ø 1250 x 688 mm, Weight 93.0 kg						Ø 1250 x 688 mm, Weight 93.0 kg					
Std. delivery length	2100 ± 100 m						2100 ± 100 m					

Ordering Information

Fiber Type/Count	Dry Core		Filled Core	
	96	144	96	144
62.5/125-OM1	GBRE196	GBRF144	GDRE196	GDRF144
50/125-OM2	GBRE296	GBRF244	GDRE296	GDRF244
50/125-OM3	GBRE396	GBRF344	GDRE396	GDRF344
50/125-OM4	GBRE696	GBRF644	GDRE696	GDRF644
9/125 ITU G.652D	GBRE896	GBRF844	GDRE896	GDRF844
9/125 ITU G.655 C & D	GBRE796	GBRF744	GDRE796	GDRF744
Std. plywood reel (non-returnable)	Ø 1400 x 900 mm, Weight 120.0 kg			
Std. delivery length	2100 ± 100 m			

Fiber Color Coding

No.		No.		No.	
1	Red	11	White	21	Grey + ring
2	Green	12	Aqua	22	Brown + ring
3	Blue	13	Red + ring	23	White + ring
4	Yellow	14	Green + ring	24	Aqua + ring
5	Violet	15	Blue + ring		
6	Pink	16	Yellow + ring		
7	Orange	17	Violet + ring		
8	Black	18	Pink + ring		
9	Grey	19	Orange + ring		
10	Brown	20	Black + ring		

Tube Color Coding

No.	
1	Red
2	Green
3 to 12	White