

### DESCRIPTION

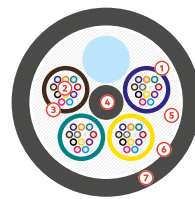
- For indoor and outdoor installations.
- Mostly used in building and campus backbone applications.
- With a degree of rodent protection, effective in many cases.

### APPLICABLE STANDARDS

- ISO/IEC 11801; • EN 50173-1; • EN50575; • IEC 60794-1;
- IEC 60332-1-[1,2]; • IEC 60754-[1,2]; • IEC 61034-[1,2];
- ANSI/TIA-568-C; • ITU G652; • ITU G657; • IEC60793-2-50;
- IEC60793-2-10; • IEC60794-1-21; • IEC60794-1-22.



Demonstrative cable of 48 fibers.



- 1 Loose Tube;
- 2 Colored Coating Fiber;
- 3 Filling Gel;
- 4 Central Strength Member;
- 5 Waterproof tape;
- 6 Glass Yarns;
- 7 Outer Jacket.



RODENT PROTECTION



ECA



DCA



INDOOR



OUTDOOR



CONDUCT



CABLE TRAY



FLAME RETARDANT



25 YEARS WARRANTY

### CABLE PROPERTIES

Coating Fiber	Color	1 - red
		2 - green
		3 - blue
		4 - yellow
		5 - white
		6 - grey
		7 - brown
		8 - violet
		9 - turquoise
		10 - black
		11 - orange
		12 - pink
Loose Tube	Dimension (mm)	2,3
	Diameter (mm)	2,5
Central Strength Member	Material	FRP
	Material	1,5mm; Halogen free, UV stabilised
Sheath	Color	Black
	Marking	(code) barpa FO Multi w Glass (CPR class) (fiber type) (No of fibers)F (batch no.) Made in EU (meters)m
Water blocking	Swellable tape and tread	
VDE 888	U-DQ(ZN)BH	

## MECHANICAL AND ENVIRONMENTAL PROPERTIES

		CPR Eca Limits		CPR Dca Limits		Method IEC 60794-1-21/22
		48F	96F	48F	96F	
Tensile Strength (Long Term)	N	3500	3500	2500	2500	E1
Tensile Strength (Short Term - Installation)	N	<b>5000</b>	<b>5000</b>	<b>5000</b>	<b>5000</b>	E1
Impact	N	20	20	20	20	E4
Torsion	N	5 cycles ± 1 turn	5 cycles ± 1 turn	5 cycles ± 1 turn	5 cycles ± 1 turn	E7
Crush	N/10cm	<b>3000</b>	<b>3000</b>	<b>2500</b>	<b>2500</b>	E3
Min. Bend radius (installation)	mm	230	260	224	256	-
Min. Bend radius (permanent)	mm	115	130	112	128	E11
Installation Temperature	°C	-40 to +70	-40 to +70	-40 to +70	-40 to +70	F1
Operation Temperature	°C	-40 to +70	-40 to +70	-40 to +70	-40 to +70	F1
Storage Temperature	°C	-40 to +70	-40 to +70	-40 to +70	-40 to +70	F1
Water Penetration		No water on free end		No water on free end		F5B
Heat of combustion	MJ/km	1100	1100	1100	1100	-
Cable Diameter	mm	11,5	13	11,2	12,8	-
Nominal Cable Weight	kg/km	105	165	127	167	-

## ORDER INFORMATION

	Number of Fibers	
	48	96
OM3	81111205548	81111205596
OM4	81111205648	81111205696
OS2 G652D	81111205148	81111205196
OS2 G657A2	81111205248	81111205296



This product is developed and produced in Europe.



To order in Dca-s2, d2, a1 add to the code "D1" at the end of the code.  
Without any CPR add to the code "S" at the end of the code. Available in different CPR class.  
Please specify in your request.



As part of our goal to achieve quality excellence, our barpa System Warranty can give you 25 years products and solution assurance of compliance with the industry performance standard comparing with the class installed. This warranty applies to network infrastructure installations that was made by an approved barpa partner using an barpa solution (end-to-end). For more informations go to our website.