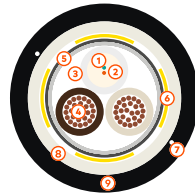




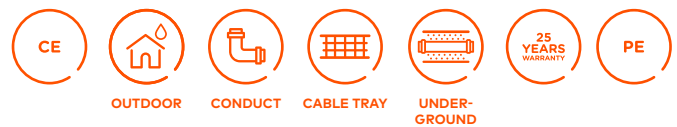
HYBRID FIBER OPTIC CABLE POWERED WITH 2x10 AWG CONDUCTORS WITH ARAMID YARNS PE

DESCRIPTION

barpa's Hybrid Fiber Optic Cable with 10 AWG copper conductors is engineered to deliver reliable power to remote devices such as CCTV cameras while simultaneously providing high-speed data transmission through single-mode optical fibers over long distances. Designed to combine power and data in a single cable, it offers robust mechanical durability and optimized performance for demanding outdoor environments.



- ① Colored Coating Fiber
- ② Filling Gel
- ③ Loose Tube
- ④ Conductor
- ⑤ Water-swellable Tape and Yarn
- ⑥ Strength Member
- ⑦ Rip-Cord
- ⑧ Filling
- ⑨ Outer Jacket



APPLICABLE STANDARDS

- IEC 60228 • IEC 60794-3-12 • IEC 60794-1-21 • IEC 60794-1-22
- IEC 60332-1-2 • EN 50525-1 • ANSI/TIA 598-D • DIN 47100
- Directive 2011/65/EU (RoHS)

CABLE PROPERTIES

Coating Fiber	Color	1 – Blue
		2 – Orange
		3 – Green
		4 – Brown
		5 – Grey
		6 – White
		7 – Red
		8 – Black
		9 – Yellow
		10 – Violet
		11 – Pink
		12 – Aqua
Strength Member	Material	Aramid Yarn
	Material	1,35mm; High Density Polyethylene (HDPE), UV resistant
Outer Sheath	Color	Black (RAL 9005)
	Marking	(code) barpa Hybrid FO (AWG) (voltage rating) (strength member) (CPR class) (fiber category) (No of fibers)F (batch no.) (meters)m
Water Blocking		Water-swellable Yarn and Tape
Filling		Halogen-free
Copper Conductor Count		2
Copper Conductor Cross Section		6mm ² , 10 AWG
Copper Coating Color		White & Brown
Copper Conductor Insulation Material		Polyvinyl Chloride (PVC)
Ripcord		Yes

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More information: info@barpa.eu or in www.barpa.eu



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ELECTRICAL CHARACTERISTICS

		Limits
Operating Voltage	V	300/500
Test Voltage	V	2000
DC Resistance	$\Omega/1000m$	3,30
Insulation Resistance	$M\Omega.1000m$	≥ 20
Max Current	A	44

MECHANICAL AND ENVIRONMENTAL PROPERTIES

		Limits	Method IEC60794-1-21/22
Tensile Strength (Short Term - Installation)	N	1500	E1
Tensile Strength (Long Term)	N	500	E1
Impact	J	5	E4
Torsion		1 m. 50N, +/- 180°, 5 cycles	E7
Crush	N/10cm	1500	E3
Min. Bend radius (installation)	mm	15 x cable \varnothing	E11
Min. Bend radius (permanent)	mm	10 x cable \varnothing	E11
Installation Temperature	°C	-30 to +60	F1
Operation Temperature	°C	-40 to +70	F1
Storage Temperature	°C	-40 to +70	F1
Water Penetration		No water on free end	F5C
Cable Diameter	mm	12,5	-
Nominal Cable Weight	kg/km	240	-

ORDER INFORMATION

	Number of Fibers			
	2	4	8	12
OS2 G652D	81121501102	81121501104	81121501108	81121501112
OS2 G657A2	81121501202	81121501204	81121501208	81121501212

For customizing the cable, please contact tech support



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.

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approved by: Ana Barbosa