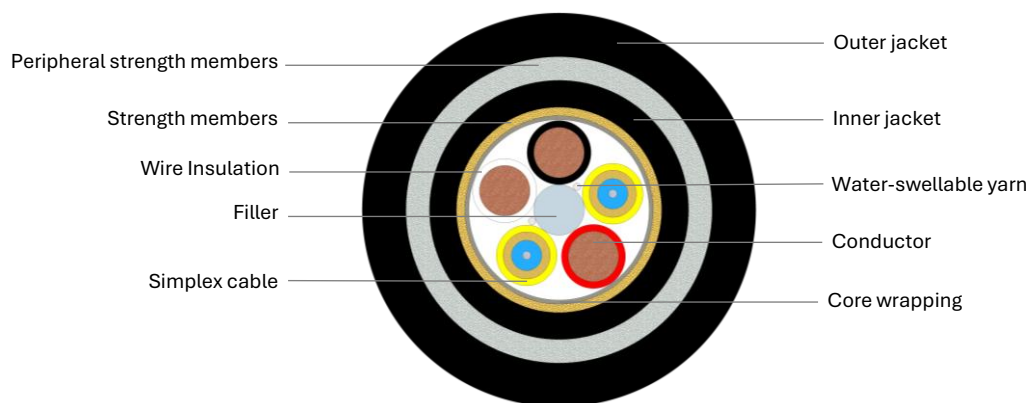


## Highly Durable Hybrid Cable

Highly durable flexible cable for application where there is a requirement for data communication by fiber optic and at the same time is needed power supply. Suitable for FTTA applications, CCTV systems or for connections of movable equipment



Picture not to scale. For illustration only.

Fibre Type	G.657.A1, G.657.A2
Fibre colour	Natural
Buffer colour	EIA/TIA-598A
Buffer material	UV curable acrylate
Simplex colour	EIA/TIA-598A
Simplex jacket material	Halogen-free flame-retardant thermoplastic compound
Conductor material	Stranded Tinned Copper , AWG 16 (19x0.3 mm)
Wire Insulation material	FEP
Wire Insulation colour	EIA/TIA-598A
Core wrapping	Water-swellable tape
Strength members	Water-swellable Aramid yarns
Inner jacket material	UV resistant, Flame-retardant (V-0, UL94) Thermoplastic Polyurethane
Peripheral strength members	Water-swellable glass yarns
Outer jacket material	UV resistant, Flame-retardant (V-0, UL94) Thermoplastic Polyurethane

Number of fibres	2	
Buffer diameter (mm)	0.9	
Simplex diameter (mm)	1.8	
Conductor count	3	
Wire Insulation diameter (mm)	1.9	
Nominal outer diameter (mm)	11.7	
Inner jacket thickness (mm)	0.8	
Outer jacket thickness (mm)	1.3	
Calc. cable weight (kg/km)	152	
Short-term tensile strength (N)	8000	IEC 60794-1-101
Long-term tensile strength (N)	3500	IEC 60794-1-101
Abrasion resistance 10 000 cycles	5 N	IEC 60794-1-102
Short-term crush resistance (N/100 mm)	5500	IEC 60794-1-103
Max. impact loading (Nm)	27	IEC 60794-1-104
Kink Testing (mm)	150	IEC 60794-1-110
Min. bend radius not load (OD)	75	IEC 60794-1-111
Min. bend radius load (OD)	150	IEC 60794-1-111
Torsion resistance (standard method E7)	± 360 °	IEC 60794-1-107
Wire resistance	14.6 Ohm/km at 20°C	
Wire Insulation Spark Test 3000 V / 0.15 sec.	Pass	
Test voltage underwater 2000 V / 1 hour (room temperature)	PASS	
Operating temperature range (°C) (static)	-40 to +70	IEC 60794-1-201
Operating temperature range (°C) (dynamic)	-10 to +70	IEC 60794-1-201
Storage temperature range (°C)	-40 to +70	IEC 60794-1-201
Installation temperature range (°C)	-10 to +60	IEC 60794-1-201
Freezing Test (standard method F15)	Pass	IEC 60794-1-215
Aging Test (standard method F9)	Pass	IEC-60794-1-209
Water tightness (1 m / 24 hrs.)	Pass	IEC 60794-1-205
Class of fire reaction	Fca	EN 50575, EN 13501-6
Static coefficient of friction (stainless steel – dry)	0.73	

Number of Fibers	Cable Code (Ordering Code)	Delivery length	Packing
2	OPK-U-SPC-2(5x1.8)N9AEUGU-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum

xx – fibre type (see Cable code datasheet)

Print legend: Manufacturer - Cable type – lot number- length marking per 1 m (customer print legend available on request)

Note: Cable marking using the Hot-foil method is done in white. If overprinting is necessary, the color of the text is yellow.

OPTOKON Kable Co., Ltd., s.r.o. reserves the right to make changes in this specification without prior notice.