



Micro Hybrid Aerial ADSS Cable

Hybrid Fibers G657A1 + Power Wires 8x1.5 mm²

Features

- Aerial self supporting
- 48 fibers and 8 copper wires 1.5 mm²
- Excellent installation performance
- Unique design with robust inner tubes
- Temperature range from -40 to +70 °C
- Easy to prepare and identify fibers

Application

Hexatronic Micro Hybrid Aerial ADSS Cable is a part of our Hexatronic Powered Fiber System, enabling aerial installations of power feeding and optical fibers. The System is suitable for all types of metropolitan, rural access networks and backbone network with need of remote powering active devices. Media Switches for PoE devices as Surveillance cameras, WiFi Access or 4G, 5G devices powered by 48 Vdc and fiber. Hexatronic Powered by 110Vdc to terminals with integrated DC-DC power units.

Design

The Micro Hybrid Cables are designed with inner protective tubes made of a unique Polyamide compound. The Polyamide gives a special strength to the product, while increasing the bending properties as well as other benefits such as extreme temperature resistance. Including 8 power wires to enable ELV power feeding. Above the inner jacket of polyethylene a layer of aramid yarns are applied to enable the strength for areial installations. Above is an outer jacket of Polyethylene applied.

Suitable fittings for areial installations and additional supporting products are noted. Enables a complete system for areial installation in many different topologies. The unique cable design with an extended operational temperature range of -40 to +70 °C can be used in many environments where heat and cold are often a major concern.

Product Information

- 1 Primary coated fiber: Silica, acrylate
- 2 Loose tube: PA
- 3 Copper wire: Copper wire strand class 5
- 4 Insulation: PP
- 5 Central strength member: Glass fiber reinforced plastic, PE
- 6 Slit up yarn: Aramide yarn
- 7 Wrapping: Water blocking yarns
- 8 Inner sheath: Polyethylene, black
- 9 Strength member: Aramid yarns
- 10 Sheath: Polyethylene, black

Technical Information

Product Color	Black sheath
Color Code	STDE
Temperature, Operation [°C]	-40 to +70

Temperature, Storage [°C]	-40 to +70
Temperature, Installation [°C]	-15 to +50
Water Blocking	Length water blocking according to IEC 60794-1-2-F5B
Fiber Type	G657A1
Attenuation @Wavelength [nm]	1310/1550/1625
Average Attenuation [dB/km]	0.36/0.22/0.25
Maximum Attenuation [dB/km]	0.38/0.25/0.30
Conformance	<p>Length water blocking according to IEC 60794-1-2-F5B.</p> <p>Mechanical and environmental test in accordance with IEC 60794-5-10</p> <p>Fiber parameters and tests according to the IEC series 60793-2 and 60793-1</p> <p>Power wires tested according to EN 50288-7:2005 in applicable parts</p>
Certifications	CE
Technical Notes	<p>Power wires</p> <ul style="list-style-type: none"> ▪ Rated voltage: max 110 Vdc ▪ Rated current: 1 pair / 2 pair-4 pair max 6/10A ▪ Resistance (single): 13 ohm/km ▪ Resistance (Loop, all pairs bridged): 6.5 ohm/km ▪ Dielectric strength cond.-cond: 2000 Vdc 1 min
Ordering Information	Supplied lengths: 3km

Technical Details

Std:E Fibers	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Blue	White	Green	Yellow	Grey	Brown	Black	Orange	Violet	Pink	Turquoise
Std:E Tubes	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Blue	White	Green	Yellow	Grey	Brown	Clear	Orange	Violet	Pink	Turquoise
Std:E Tubes	1	2	3-6				7	8-16				
	Red	Blue	White				Blue	White				

StdE Color Code Chart

Articles 1

Article name	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force [N]	Crush [N/100 mm]	Diameter Ø [mm]	Weight [kg]	Length [m]	Form of Delivery
GNHGL 48 G.657.A1 + 8x1.5mm² Cu TOL4079037/48C	48	2x24	125	3500	2000	13.9	220	3000	K11