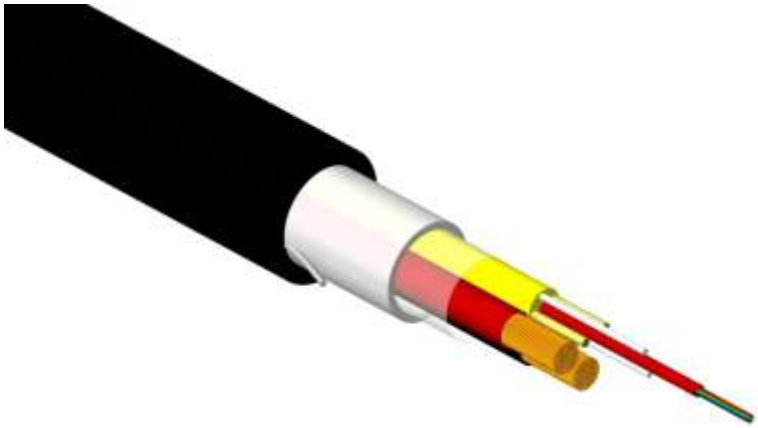
NFC13BU01 Hybrid Optical/Power Cable

Hybrid Optical/Power Cable 2 conductor + 2/4 fibers

B2ca
CONSTRUCTION PRODUCT REGULATION



Applications:

The Novobit Hybrid cables are developed for applications that requires both power and transmission and that benefits from a simple implementation with a single cable, such as small cell deployments or CCTV installations. The UV resistant LSZH jacket enables both indoor and outdoor usage and with CPR B2ca approved for fixed indoor installations within Europe.

Novobit's Hybrid Optical/Power Cable is designed for a variety of applications where both electrical power and optical fiber are required. It consists of one optical cable with 2 or 4 fibers and two copper conductors of either 1.5mm^2 or 2.5mm^2 each. The optical cable and copper conductors are unified by glass yarns for rodent protection and with an outer jacket of LSZH with UV stabilization enabling both indoor and outdoor installations with CPR class B2ca-s1,d0,a3. The outer jacket can be delivered in any color requested matching the environment.

Optical Properties

The cable is available with the following fiber types:

Single mode	Multimode
- G652	- OM2
- G657.A1	- OM3
- G657.A2	- OM4

Temperature Properties

Service	-10°C to +50°C

Specifications and Performance

Conductor area [mm^2]	**1.5**	**2.5**
# of fibers	2/4	
Diameter [mm]	11	
Weight [kg/km]	170	
Bending radius (dynamic) [mm]	220	
Allowed tension (service) [N]	1500	
Allowed tension (installation) [N]	2000	
Allowed crush (short term) [N/dm]	3000	
Allowed crush (long term) [N/dm]	4000	
Conductor Diameter [mm]	2.9	3.2
Electric current [A]	16	25
Conductor max electrical resistance @ 20°C [Ω/km]	12.1	7.4
Conductor min electrical resistance @ 70°C [MΩ/km]	0.011	0.010

Standards

IEC 60794-1-2 F1	Temperature
IEC 60794-1-2 E1	Tensile Performance
IEC 60794-1-2 E3	Crush Resistance
IEC 60794-1-2 E4	Impact
IEC 60794-1-2 E6	Repeated Bending
IEC 60794-1-2 E7	Torsion
IEC 60794-1-2 E11	Bending
IEC 60754-1/-2 EN 50267-1-2/-2-2 VDE0482-267-2-1/-2-2	Zero Halogen, non-corrosive gases
IEC 60332-1-2 EN 60332-1-2 VDE0482-332-2-1	Flame retardant
IEC 61034-1/-2 EN 61034-1/-2 (EN 50268-1/-2)	Minimum smoke emission

Structure

1. 900µm tube with up to 4 fibers
2. LSZH inner jacket with FRP strength elements and aramid yarn
3. 2 copper conductors
4. Water-blocking Glass yarn with rip cords
5. LSZH outer jacket

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Variants

Part No.	Name	Cooper wire (X x mm^2)	No. of tubes	No. of fibers	Diameter (mm)	Weight (kg/km)	Tensile (N)	Crush (N/dm)
NFC13BU01-2-A	Hybrid 2x1.5+2f	2 x 1.5	1	2	10	170	1500	3000
NFC13BU01-4-A	Hybrid 2x1.5+4f	2 x 1.5	1	4	10	170	1500	3000
NFC13BU01-2-B	Hybrid 2x2.5+2f	2 x 2.5	1	2	10	170	1500	3000
NFC13BU01-4-B	Hybrid 2x2.5+4f	2 x 2.5	1	4	10	170	1500	3000