

CLIK! – MATV solutions



The latest trends in LNB (Low Noise Block converter) design for commercially available satellite systems have contributed to the development of the revolutionary CLIK! connector. Innovative optical cabling systems will be used in the future to ensure the proper transmission of optical data with high bit rates from the LNB to the media converter, even over longer distances.

The CLIK! connection concept consists of a compact fiber-optic connector, whose round design with an external diameter of just 5 mm allows the smooth pulling of pre-assembled cable systems even in the smallest of conduit systems.

When used in combination with star or bus splitters, complex in-house satellite distribution systems can be set up in a very short time.

CLIK! – connected in next to no time

Modern cabling of multiple dwellings with glass fibers presents great challenges for planners and installation engineers. Both the vertical riser zones and horizontal distribution systems offer hardly any space for additional cabling. In order to overcome this problem, fiber-optic connectors can be terminated in the field or pigtails can be spliced on to each end of the cable. However, both these solutions require expensive equipment as well as a great deal of fiber-optic expertise.

Pre-assembled cables would be a possible solution, but these are rarely feasible in practice due to the large diameter of the connectors (> 7 mm) and the limited space available in conduits and riser zones.

The pre-assembled CLIK! products from HUBER+SUHNER with their new, ultra-slim design (< 5 mm) solve these problems. There is no need to buy expensive equipment and installation is very simple thanks to the plug&play design.

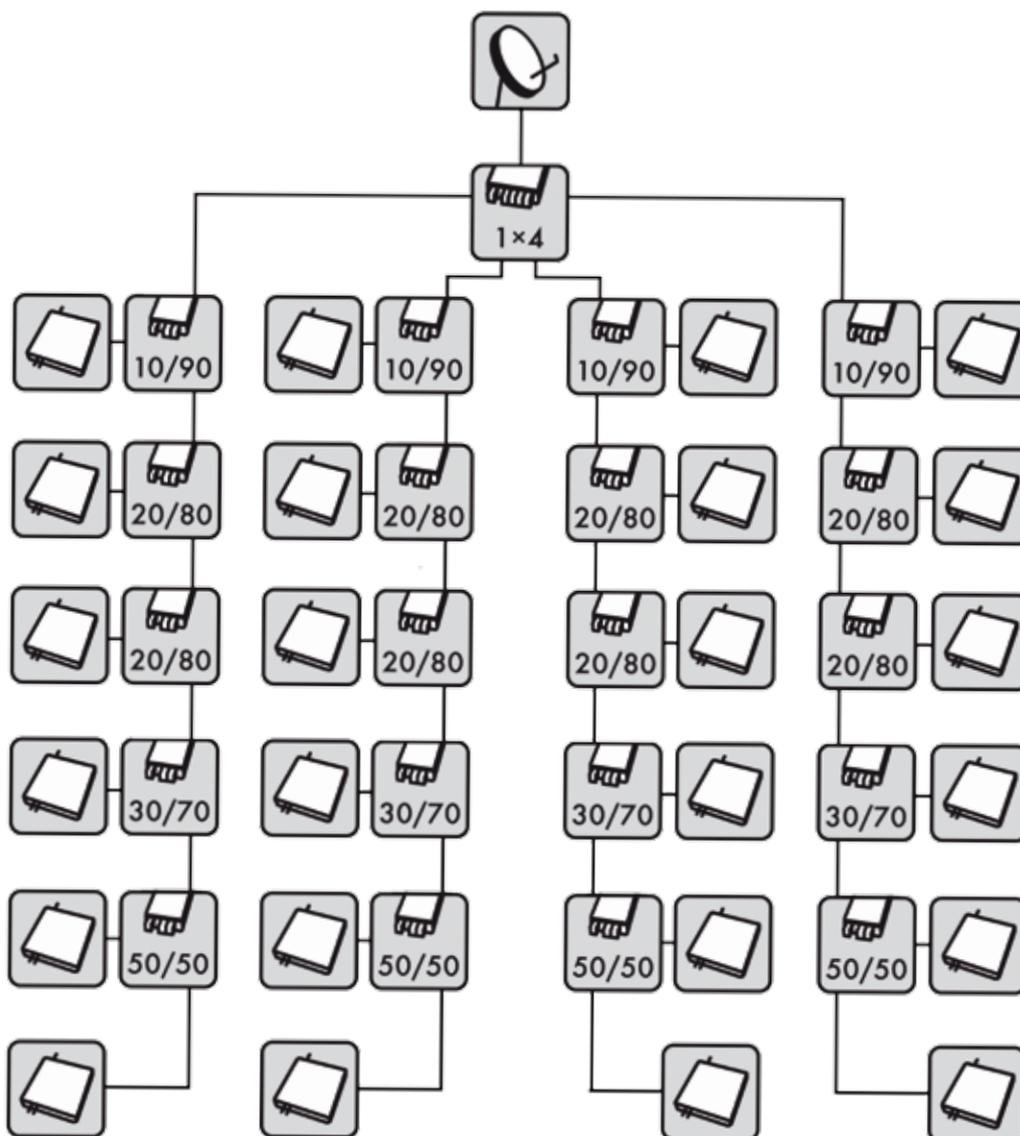


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In many cases, a bus system is the ideal cabling topology for residential dwelling units. The HUBER+SUHNER CLIK! product range permits realisation of this cabling form with different unsymmetrical splitter types.

The HUBER+SUHNER CLIK! is also the perfect solution for the classic star cabling. The advantages of this product innovation can be realised efficiently through the use of symmetrical splitters.



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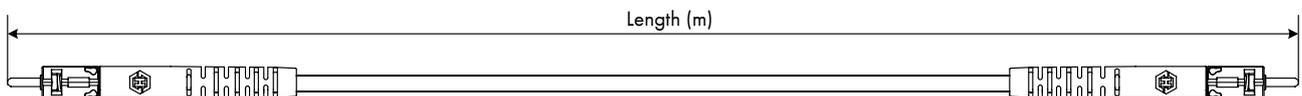
Features

- Miniaturised space-saving design (diameter < 5 mm); fits into every duct
- Preterminated patchcord for easiest installation
- Robust push-pull connector for reliable and quick installation
- Singlemode low bend fiber according to ITU-T G.657 A2
- Excellent mechanical and environmental performance
- LSFH-jacket (Low Smoke Free of Halogen)
- Blind-mating; excellent usability in tight environments
- Pulling-eye

Applications

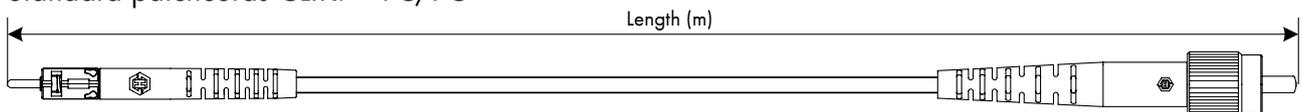
- DTT Cabling
- SMATV Installations
- CATV Networks
- FTTH Networks
- FiTH Networks

Standard patchcords CLIK! – CLIK!



Item no.	Order code	Length
84100969	27H01FFG-LB-T1/T1-2.5 NN	5 m
84100968	27H01FFG-LB-T1/T1-2.10 NN	10 m
84100966	27H01FFG-LB-T1/T1-2.25 NN	25 m
84123397	27H01FF0-LB-T1/T1-2.50 NN	50 m
84123398	27H01FF0-LB-T1/T1-2.100 NN	100 m

Standard patchcords CLIK! – FC/PC

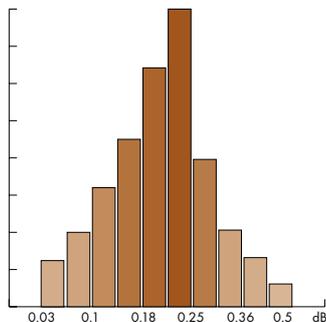


Item no.	Order code	Length
84100972	27H01FFG-LB-T1/30-2-0.20 NN	0.20 m
84108075	27H01FF0-LB-T1/30-2-5 NN	5 m
84100967	27H01FFG-LB-T1/30-2-25 NN	25 m
84125782	27H01FF0-LB-T1/30-2-50 NN	50 m
84125783	27H01FF0-LB-T1/30-2-75 NN	75 m
84125784	27H01FF0-LB-T1/30-2-100 NN	100 m

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Attenuation of optical patchcords

Connector quantity



Parameters	Standards	Values
Insertion loss at 1310nm, singlemode	IEC 61300-3-34	typ. ≤ 0.20 dB $97\% \leq 0.45$ dB
	IEC 61300-3-4	≤ 0.35 dB
Return loss, singlemode	IEC 61300-3-6	≥ 50 dB
End face geometry acc. to	IEC 61755-3-1	

Specification of optical patchcords

Characteristics	Values
Cable	01-E9LB/FJH-F27
Jacket \varnothing	2.7 mm
Type of fibre	ITU-T G.657 A2
Cable jacket	halogen free and non-corrosive fire gases
Tensile strength, connector (acc. to IEC 61753-1 cat. U)	> 100 N
Tensile strength, cable	during installation: 250 N in service: 100 N
Minimal bending radius, cable	during installation: 15 mm in service: 10 mm
Crush resistance, cable	short-term: 600 N/cm long-term: 200 N/cm
Temperature range	during installation: -10 °C to $+50$ °C in service: -10 °C to $+70$ °C in storage: -25 °C to $+70$ °C
Flammability	UL 94 V-0
RoHS	compliant

CLIK! – MATV solutions



Splitters for MATV applications



Features

- Single fusion compact size
- Low polarization sensitivity
- High stability and reliability
- Excellent mechanical and environmental performance
- Singlemode

Applications

- DTT Cabling
- SMATV Installations
- CATV Networks
- FTTH Networks
- FITH Networks

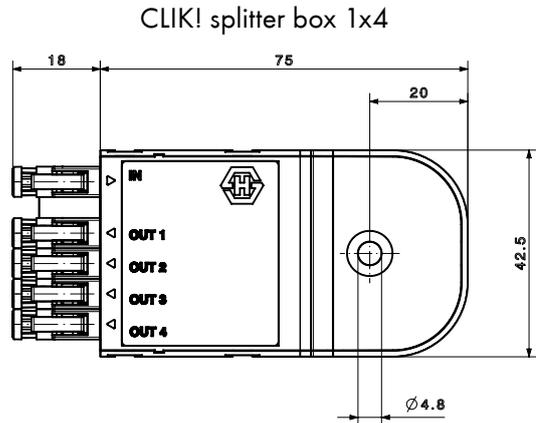
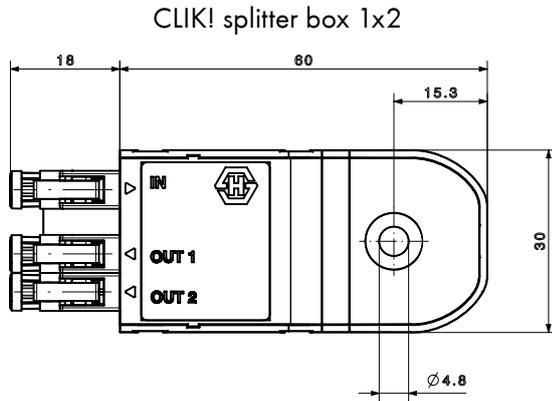
Splitter specification *

Splitter type	1x2				1x4
	Operating wavelength	1310 and 1550 nm			
Operating bandwidth	± 40 nm				± 40 nm
Splitting ratio	50:50 %	30:70 %	20:80 %	10:90 %	equal
Insertion loss	≤ 3.8 dB	≤ 6.3 / ≤ 2.1 dB	≤ 8.4 / ≤ 1.4 dB	≤ 12.0 / ≤ 0.8 dB	≤ 7.7 dB
Uniformity dB	≤ 0.7 dB				≤ 2.0 dB
Typical excess loss	≤ 0.15 dB				≤ 0.4 dB
PDL	≤ 0.2 dB				≤ 0.35 dB
Return loss	≥ 55.0 dB				≥ 50.0 dB
Directivity	≥ 55.0 dB				≥ 55.0 dB
Power handling	500 mW				300 mW
Dimension	60 x 30 x 15 mm				75 x 45 x 15 mm
Operating temperature	- 40 to +85°C				-40 to +85°C
Fiber type	corning SMF-28e XB				corning SMF-28e XB
Package	plastic hard case				plastic hard case

*values without connector loss

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Splitters for MATV applications



Ordering information:

CLIK! splitter box – asymmetrical type

Description	Item no.
CLIK-WHO-T1T1-01F1090-09-010 NN	84108480
CLIK-WHO-T1T1-01F2080-09-010 NN	84108481
CLIK-WHO-T1T1-01F3070-09-010 NN	84108483

CLIK! splitter box – symmetrical type

Description	Item no.
CLIK-WHO-T1T1-01F1x4-09-010 NN	84108478
CLIK-WHO-T1T1-01F1x2-09-010 NN	84108479



CLIK! – adapter

Description	Item no.
CLIK-CLIK-A100	84100405

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Cleaning tools

The CLIK!-products are factory-preterminated and cleaned before packing. The CLIK!-products don't need to be cleaned for the first connection if used correctly.

Nevertheless, on a building site, it can occur that the endfaces of the connectors need to be cleaned. For these cases specific cleaning products have been designed in order to allow the easiest and safest cleaning procedures.

Cleaning kit

Description	Article designation	Item no.	
cleaning kit contents 1a, 1b, 1c (2x), 1d (2 x 25 off)	FIBER OPTIC CLEANING KIT	84038056	
1a Red bag	QbE FO cleaning system	-	
1b QbE cleaning system	FW2150 Electro-Wash MX	84041085	
1c MX cleaning pen	Pen	84041105	
1d Fiber optic cleaning swab	51121 Cleaning swab	84041108	

Cleaning tool for CLIK! splitters and connectors

Description	Article designation	Item no.	
Cleaner for CLIK! splitter boxes	Cleaner, IBC, ODC, 1.25 mm	84108852	