

Fax inquiry (Fax-Number +49 - 71 50 - 88 84)

Sender (Firm stamp)

Company:	Contact person:
Street:	Phone:
Zip / postal code, city:	Fax:

Inquiry: No. _____ Date: _____

Pre-assembled cables

Cable type		
Fibre type	<input type="checkbox"/> G50 <input type="checkbox"/> G62,5 <input type="checkbox"/> E9 <input type="checkbox"/> K200 <input type="checkbox"/> P980	<input type="checkbox"/> G50 <input type="checkbox"/> G62,5 <input type="checkbox"/> E9 <input type="checkbox"/> K200 <input type="checkbox"/> P980
Cable length	meter:	meter:
Connector type, page 1		
Connector type, page 2		
Pulling aid	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
If yes	<input type="checkbox"/> one side/end <input type="checkbox"/> both sides/ends	<input type="checkbox"/> one side/end <input type="checkbox"/> both sides/ends
Area of application		
Quantity	number of pieces:	number of pieces:
Desired delivery date	day / date:	day / date:
Other requests		

Splicing boxes

Type of fitting	<input type="checkbox"/> complete <input type="checkbox"/> partially configured <input type="checkbox"/> empty	<input type="checkbox"/> complete <input type="checkbox"/> partially configured <input type="checkbox"/> empty
Coupling types		
Number of couplers	piece:	piece:
Fibre type	<input type="checkbox"/> G50 <input type="checkbox"/> G62,5 <input type="checkbox"/> E9 <input type="checkbox"/> K200 <input type="checkbox"/> P980	<input type="checkbox"/> G50 <input type="checkbox"/> G62,5 <input type="checkbox"/> E9 <input type="checkbox"/> K200 <input type="checkbox"/> P980
Type of polish	<input type="checkbox"/> PC <input type="checkbox"/> APC/8°	<input type="checkbox"/> PC <input type="checkbox"/> APC/8°
Part no. (if available):		
Quantity	number of pieces:	number of pieces:
Desired delivery date	day / date:	day / date:

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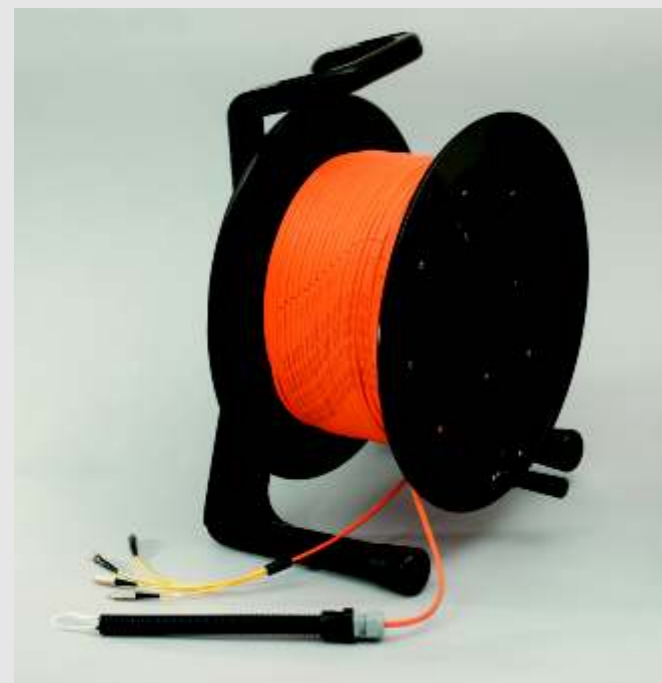
Other branches:
Sweden · Netherlands · Czech Republic
Switzerland · France · Turkey · Poland
Slovakia · Southkorea · China
India · Singapore · Thailand · Russia



Fibre-optic cable wiring made easy - prefabricated fibre-optic cable systems



HELUCOM® pre-assembled fibre optic cables can be installed without any special knowledge or tools. The cable is pre-assembled and can be connected immediately after it has been laid. As a result, the installation process actually involves nothing more than laying the cable itself. In the distributor bodies, the fibres from the buffered-fibre cable are conducted through the individual simplex cables without splicing. The simplex cables are fitted with pre-assembled connectors. The pulling aid is connected to the pull cable. As a result, it is possible to lay the cable together with the pre-assembled distributor (in the case of the buffered-fibre cable) just as you would lay a standard cable. The benefits of pre-fabricated, pre-assembled cables are easy to see:



Completing the HELUCOM® CONNECTING SYSTEMS series, we also offer splice boxes in all configurations. Our splice boxes feature a sturdy, extractable metal housing with two return outlets.

A PG thread on the back side makes them compatible with pre-assembled buffered-fibre cable sets.

Splice boxes are available either fully fitted (couplings, pigtails, splice cartridge, comb, splice protector), partially fitted (couplings only), or empty.

If you have any questions about our products or product combinations, please contact our Data, Network and Bus Technology department. We're happy to help!



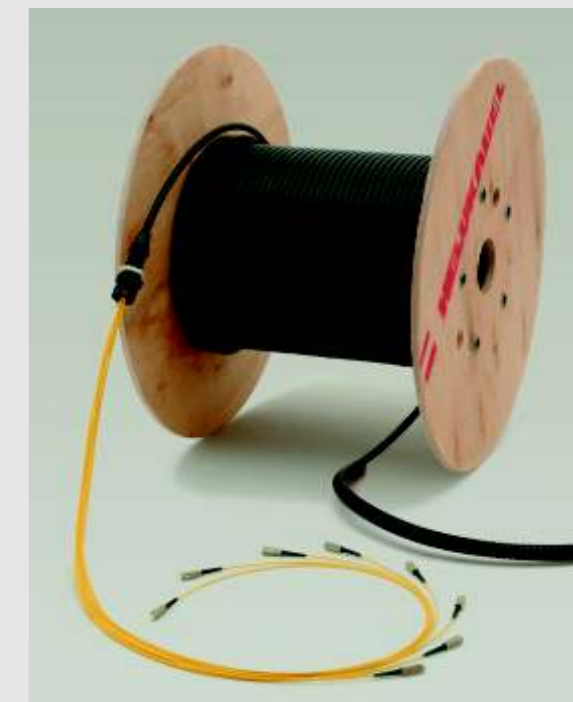
- Any length of cable can be ordered without any extra cable lengths.
- Connectors are pre-assembled at the factory in a dust-free environment.
- No more splicing or connector assembly is necessary.
- Included measurement report does away with dimensional checks.
- Pre-fabricated subcomponents result in greater time savings.
- Compatible splice boxes enable easy, "plug-and-play" installation.
- The high investment costs of splicing and measuring equipment are eliminated.

HELUCOM® Packed-strand cables

These model types are suitable for indoor or outdoor applications (depending on cable type).

Series features:

- 2-48 fibres (depending on cable type)
- High-quality distributor body with threaded mount
- Y-distributor for more than 24 fibres (for example, 2x24 fibre bundles)
- Excellent mechanical and thermal resistance
- Protected from spray water; sturdy design
- Variable use with different cable types
- Available with all standard plug connectors
- Can be pre-assembled on one or both sides
- Pulling aid on one or both sides
- Measurement report included

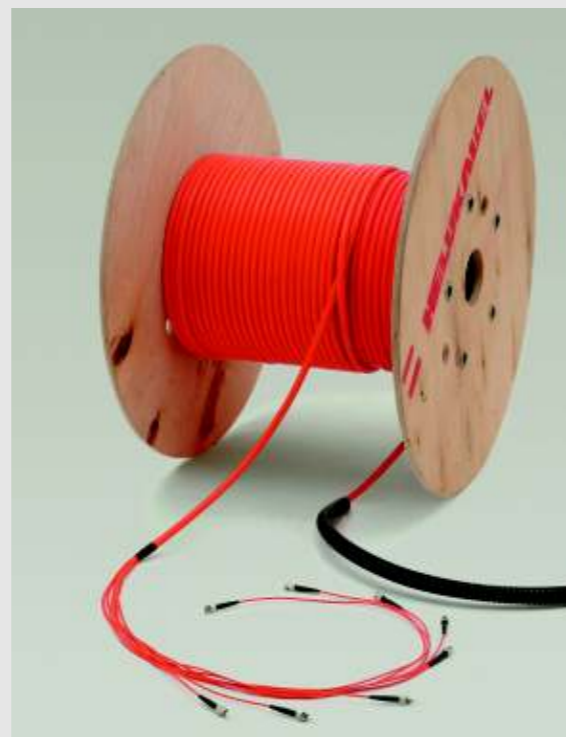


Number of fibres	up to 12	up to 24	up to 48
Distributor body diameter	28 mm	35 mm	2 x 35 mm (Y-distributor)
Max. tensile load (on pulling aid)	400 N	550 N	2000 N
Max. tensile load (on cable)	Depends on cable type used		
Temperature range	- during installation		- 10°C to +50°C
	- during operation		- 25°C to +70°C
	- during storage		- 25°C to +70°C*
	(depends on cable type used)		
Subcable diameter	2.5 mm		
Standard whip length	2500 mm in 8-cm intervals (max. 3000 mm)		
Max. cable length	4000 m (depending on fibre type)		
Plug connectors	ST, SC, FC, DIN, F-SMA, E2000, LC (depending on fibre type) APC/8°: SC, FC, E2000, DIN (depending on fibre type)		
Connector attenuation	Max. 0.3 dB (multimode) Max. 0.4 dB (single mode)		
Cable types	Sheathed and unsheathed buffered-fibre cables		
Cable types	Examples: A-DQ(ZN)B2Y, A/I-DQ(ZN)BH, A-DQ(ZN)2Y4Y		
Sheath materials	PE, H, PA, PUR		
Pulling aid type	Plastic pulling tube		
Pulling aid dimensions	35 mm	38 mm	2 x 38 mm
Pulling aid transversal pressure strength	Approx. 150 N (tested with 50 mm x 50 mm plate according to in-house testing standard DO 9.21-4320)		
Impermeability of distributor	IP 67 (regular internal thread adapter) / IP 66 (complete cable system)		
Thread dimensions	PG 16	PG 21	2 x PG 21
Subcable designation	Individual numeric designation of each fibre (subcable)		

HELUCOM® Breakout cable

These model types are suitable for indoor applications.
Series features:

- 2-24 fibres (depending on cable type)
- FRNC outer sheath, flame retardant according to EN60332-1
- Excellent mechanical properties
- Slim design
- Easy to lay in tubes, cable ducts or trays
- Available with all standard plug connectors
- Can be pre-assembled on one or both sides
- Pulling aid on one or both sides
- Measurement report included



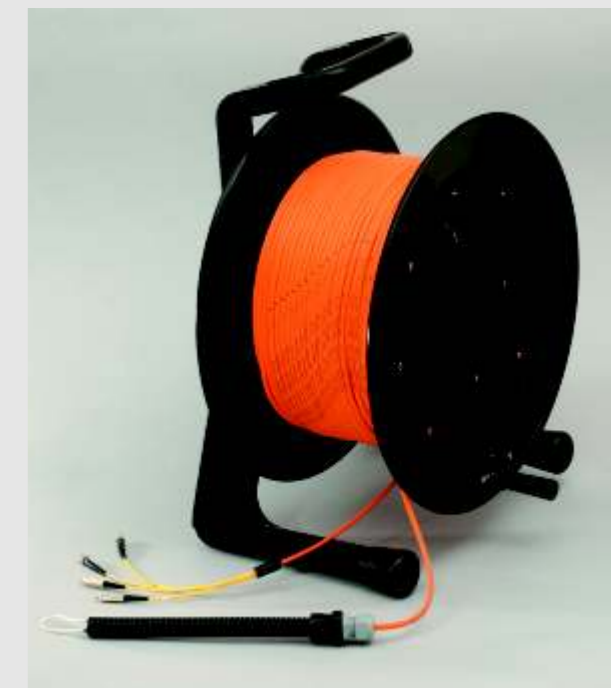
Number of fibres	Max. 24
Distributor body diameter	-
Max. tensile load (on pulling aid)	-
Max. tensile load (on cable)	Depends on cable type used (see cable specification sheets)
Temperature range*	- during installation -5°C to +50°C - during operation -20°C to +60°C - during storage -20°C to +60°C
Subcable diameter	2.1 mm
Standard whip length	2500 mm in 8-cm intervals (max. 3000 mm)
Max. cable length	2000 m (depending on fibre type)
Plug connectors	ST, SC, FC, DIN, F-SMA, E2000, LC (depending on fibre type) APC/8°: SC, FC, E2000, DIN (depending on fibre type)
Connector attenuation	Max. 0.3 mm (multimode) Max. 0.4 mm (single mode)
Cable types	Sheathed and unsheathed breakout cables
Cable types	Examples: I-V (ZN)HH, I-VH, I-VHH
Sheath materials	PE, FRNC (H), PUR
Pulling aid type	Connector-type protective tube
Dimensions**	Depending on cable type, max. NW23
Transversal pressure strength**	Approx. 150 N (tested with 50 mm x 50 mm plate according to in-house testing standard DO 9.21-4320)
Impermeability of distributor	-
Thread dimensions	-
Subcable designation	Individual numeric designation of each fibre (subcable)

*Depends on cable used
**Connector-type protective tube

HELUCOM® Mobile cable, suitable for drums

These model types are suitable for indoor and outdoor applications. Series features:

- 2-12 fibres (depending on fibre type)
- PUR outer sheath, flame retardant according to EN60332-1
- Excellent mechanical and thermal properties
- Oil-resistant
- Longitudinally watertight according to IEC 60794-1-2-F5
- Resistant to hammer impact according to IEC 60794-1-2-E6
- Suitable for drag chain applications
- Can be spooled provided that the minimum bending radius is not exceeded
- Available with all standard plug connectors
- Can be pre-assembled on one or both sides
- Pulling aid on one or both sides
- Measurement report included
- Also available on sturdy drum body made of solid rubber



Number of fibres	Max. 12
Distributor body diameter	28 mm
Max. tensile load (on pulling aid)	300 N
Max. tensile load (on cable)	Depends on cable type used (see cable specification sheets, 650 - 1100 N)
Temperature range	- during installation -5°C to +50°C - during operation -30°C to +70°C - during storage -30°C to +70°C
Subcable diameter	2.1 mm
Standard whip length	1500 mm in 8-cm intervals (max. 2500 mm)
Max. cable length	2000 m depending on fibre type
Plug connectors	ST, SC, FC, F-SMA, E2000, LC (depending on fibre type) APC/8°: SC, FC, E2000, DIN (depending on fibre type)
Connector attenuation	Max. 0.3 dB (multimode) Max. 0.4 dB (single mode)
Cable types	Sheathed and unsheathed mini breakout / breakout cables
Cable types	Examples: A-V(ZN)11Y, A-V(ZN)11Y11Y
Sheath materials	PUR
Pulling aid type	Connector-type protective tube
Pulling aid dimensions	Depending on cable type, max. NW23
Pulling aid transversal pressure strength	Approx. 150 N (tested with 50 mm x 50 mm plate according to in-house testing standard DO 9.21-4320)
Impermeability of distributor	IP 67 (regular internal thread adapter) / IP 66 (complete cable system)
Thread dimensions	PG 16
Subcable designation	Individual numeric designation of each fibre

General technical options

Product component	Options
Fibre type	- MM G50/125µm - MM G62.5/125µm - SM E9/125µm - HCS K200/230µm - POF P980/1000µm
Number of fibres	2-48 (depending on cable type)
Cable type	- sheathed / unsheathed - buffered-fibre cable - breakout cable - mini breakout cable
Net cable length (up to respective distributor)	2 - 4000 m (depending on fibre type)
Connector type (depending on fibre type)	ST, SC, FC, DIN, F-SMA, E2000, LC (depending on fibre type) APC/8°: SC, FC, E2000, DIN (depending on fibre type)
Pulling tube	On one or both sides (standard)
Description	HELUCOM® buffered-fibre cable HELUCOM® breakout cable HELUCOM® mobile cable



Quality assurance documentation

Measurement reports	A measurement report is included with each pre-assembled cable set.
Traceability	A production number ensures seamless tracing.
Goods issue check	A complete visual check is performed on goods before they are issued.

Packaging type/drum sizes	Diameter	Width	Tare	Max. cable length
Standard types				
Cable reel	-	-	-	Approx. 150 m*
Small plywood drum	600 mm	410 mm	6 kg	Approx. 450 m*
Large plywood drum	800 mm	410 mm	6 kg	Approx. 450 m*
Wood drum	1250 mm	710 mm	67 kg	Approx. 2000 m*

Longer cable lengths require other drum types; available on request. *Depends on cable type

Splice boxes, extractable, 19"-1HE

Application

HELUCOM® CONNECTING SYSTEMS glass-fibre patch panels can be used as cable end enclosures for multicore fibre-optic cables in 19" cabinets. They are used for holding and protecting fibre splices, coupling connections and pigtails. Units are available with 2 to 24 connections and two possible cable inlets.

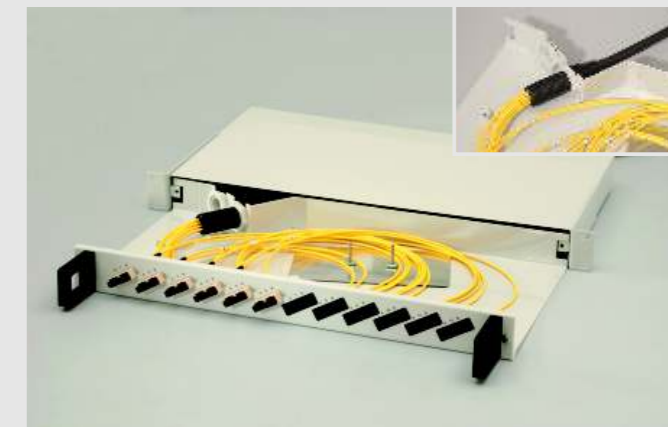
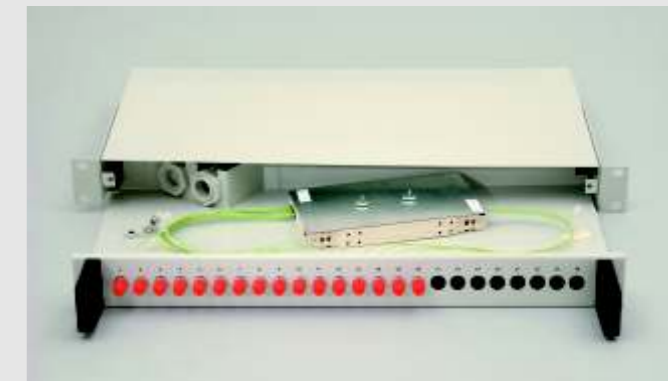
Design

Unit is designed for 19" application and constructed of a two-component metal housing. All fittings such as splice boxes, cable inlets (PG thread) and front couplings are on the basic unit. The unit can be fully extracted from the upper component for installation or servicing. Handles on the front side enable easy installation.

Properties

Use of state-of-the-art components ensures good attenuation coefficients and low reflection. Connectors meet strict standards with regard to corrosion resistance and reliability.

Connections conform to all applicable standards. The unit has an economical design and attractive appearance, making it ideal for a wide range of applications.



From our delivery programme:

Fully fitted:

Part number	Coupling type/ number	Fibre type	VPE
801164	4xST	G50/125	1
801165	8xST	G50/125	1
81354	12xST	G50/125	1
81355	12xST	G62,5/125	1
82869	12xST	E9/125	1
81356	24xST	G50/125	1
81357	24xST	G62,5/125	1
82870	24xST	E9/125	1
801166	2xSCdx	G50/125	1
801167	4xSCdx	G50/125	1
81358	6xSCdx	G50/125	1
81359	6xSCdx	G62,5/125	1
82871	6xSCdx	E9/125	1
81675	12xSCdx	G50/125	1
81676	12xSCdx	G62,5/125	1
82872	12xSCdx	E9/125	1

Fitted with coupling:

Part number	Coupling type/ number	Fibre type	VPE
801171	4XST	Multimode	1
801172	8XST	Multimode	1
801173	12XST	Multimode	1
801629	12XST	Singlemode	1
801174	24XST	Multimode	1
801630	24XST	Singlemode	1
801168	2XSCdx	Multimode	1
801169	4XSCdx	Multimode	1
801170	6XSCdx	Multimode	1
801631	6XSCdx	Singlemode	1
80996	12XSCdx	Multimode	1
801632	12XSCdx	Singlemode	1

Also available with other fittings or connector systems such as FC, DIN, F-SMA, E2000, LC (depending on fibre type) and APC/8° (SC, FC, E2000, DIN).