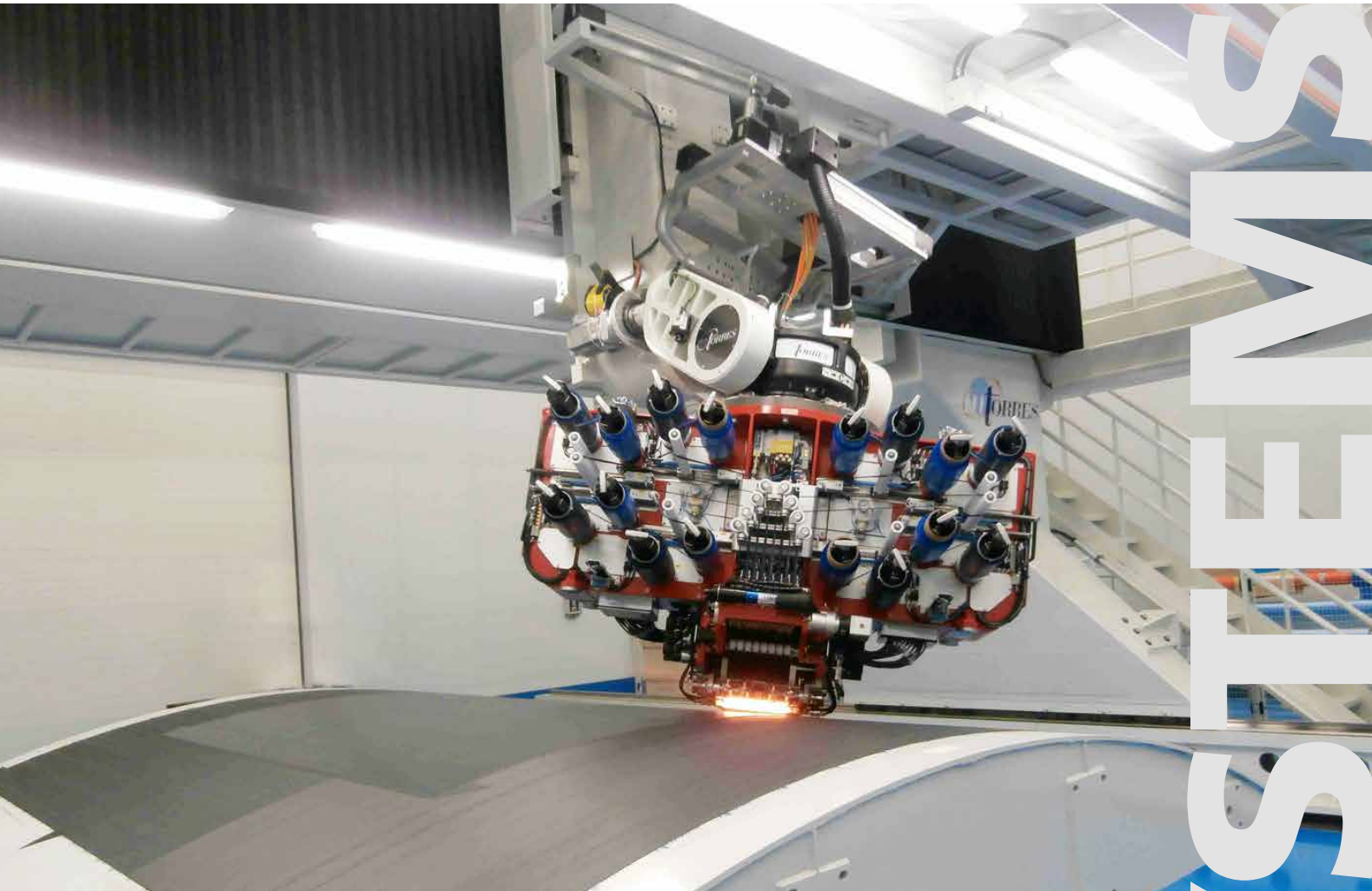




HELUKABEL®



 Data, Network & BUS Technology

BUS systems

**Industrial Automation • Process Automation
Building Technology • Plug Connectors
Fibre Optic & Patch Cable Pre-Assembly**

S
V
E
T
S
Y
S
T
E
M
S

■ HELUKABEL – YOUR PARTNER FOR DATA, NETWORK & BUS TECHNOLOGY

For all BUS systems in the industrial automation, process automation, and building technology. We also provide plug connectors and fibre optic, and patch cable pre-assembly. In short, we offer everything from a single source.

INDUSTRIAL ETHERNET

PROFINET



PROFIBUS



LAN

• Cat. 5, 6, 7, 8

EIB



LON



LONMARK®

HOSPITAL BUS

FOUNDATION FIELDBUS



HELUKAT®

HELUKAT®
CONNECTING SYSTEMS

HELUKAT®
CONNECTING SYSTEMS INDUSTRY

HELUCOM®

HELUKABEL®
CONNECTING SYSTEMS INDUSTRY

HELUCOM®
CONNECTING SYSTEMS



AS-INTERFACE

LWL

- Multi-Mode
- Single-Mode
- POF
- HCS



INTERBUS



DEVICENET

PLUG CONNECTORS

- Fibre Optic
- Copper

SPLICING SYSTEMS & TOOLS



CAN



PROFIBUS PA

INDUSTRIAL AUTOMATION

Ethernet standards for industrial automation	Application	Part No.	DNB catalogue chapter*	Outer sheath colour
Profinet Type A PVC	Fixed installation	800653		■ - green
Profinet Type A PUR		801194		
Profinet Typ A XLPE PUR		801195		■ - green
Profinet Typ A PVC Armoured PE	Outdoor installation, rodent protection	801650		■ - black
Profinet Type B Hybrid FRNC	Flexible application	801651		■ - green
Profinet Type B Shipline FRNC		802185		■ - green
Profinet Typ B Festoon PVC		803295		■ - green
Profinet Type B PVC		800654		■ - green
Profinet Type C PUR	Highly flexible & drag chain	800655		■ - green
Industrial Ethernet Torsion Kat.5	Robot & drag chain	802186		■ - green

Industrial Ethernet Cat 7e Robust PUR	Fixed installation	801197	BUS cables	■ - green
Industrial Ethernet Cat 7 Shipline FRNC	Flexible application	803382		■ - grey
Industrial Ethernet Cat 7 Robustflex FRNC	Flexible application	802184		■ - green
Industrial Ethernet Cat 6A PVC	Fixed installation	803693		■ - green
Industrial Ethernet Cat 6 PUR	Highly flexible & drag chain	803387		■ - green
Industrial Ethernet Cat 5e PUR	Flexible application	8000068		■ - grey
Industrial Ethernet Cat 5e 105°C X-FRNC	Flexible application	802293		■ - black
Industrial Ethernet Cat 5e 2P Eco PUR	Highly flexible & drag chain	82838		■ - green
Industrial Ethernet Cat 5e 4P PUR	Highly flexible & drag chain	82839		■ - green
Industrial Ethernet Cat 5 2P PUR	Highly flexible & drag chain	80088		■ - green
Industrial Ethernet Cat 5 4P PUR	Highly flexible & drag chain	81155		■ - green
Industrial Ethernet Cat 5 4P Torsion PUR	Robot & drag chain	800067		■ - green

Digital signal cables — Siemens compatible				
HMCB200 2x2x0,22 PVC	Fixed installation	802471	BUS cables	■ - green
HMCB500S 2x2xAWG24+1x2xAWG22 PVC	Highly flexible & drag chain	803672		■ - green
HMCB800 2x2x0,20+1x2x0,38 PUR	Highly flexible & drag chain	804767	On request	■ - green

BUS standards for industrial automation				
Profibus L2 Standard PVC	Fixed installation	80384	BUS cables	■ - grey
Profibus L2 Standard PVC	Fixed installation	81448		
Profibus L2 Food Outdoor PE	Fixed installation	80792		■ - black
Profibus L2 Robust PUR	Fixed installation	81186		■ - petrol
Profibus L2 Direct Burial PVC/PE	Direct burial	82824		■ - black
Profibus L2 Direct Burial PVC Armoured PE	Direct burial, rodent protection	802177		■ - black
Profibus L2 Litze PVC	Flexible application	800648		■ - purple
Profibus L2 Trailing PUR	Highly flexible & drag chain	81003		■ - petrol
Profibus L2 Trailing PUR	Highly flexible & drag chain	80267		■ - purple
Profibus Hybrid Trailing PUR	Highly flexible & drag chain	82913		■ - petrol
Profibus Hybrid Trailing PUR	Highly flexible & drag chain	800044		■ - purple
Profibus Shipline X-FRNC	Flexible application	802178		■ - purple
Profibus High Temp. FEP	Fixed installation	802179		■ - purple
Profibus Torsion PUR	Robot & drag chain	800109		■ - purple
Profibus Stranded PVC	Flexible application	800649		■ - petrol
Profibus POF Hybrid PUR	Flexing	81713		■ - purple
Profibus SK Standard PVC	Fixed installation	81903		■ - purple
Profibus SK Food PE	Fixed installation	81904		■ - black
Profibus SK FRNC	Fixed installation	81501		■ - purple
Profibus SK Robust PUR	Fixed installation	81905		■ - purple
Profibus SK Trailing PUR	Highly flexible & drag chain	801659		■ - purple
Profibus SK Trailing PUR	Highly flexible & drag chain	81906		■ - petrol

CAN 2x0,22 PVC	Fixed installation	81286	BUS cables	■ - purple
CAN 4x0,22 PVC Star Quad		81287		
CAN 4x0,22 PVC Pairs		82509		■ - purple
CAN 2x0,34 PVC		801572		■ - purple
CAN 4x0,34 PVC Star Quad		801573		
CAN 4x0,34 PVC Pairs		803344		■ - purple
CAN 2x0,5 PVC		800571		
CAN 4x0,5 PVC Star Quad		800685		■ - purple
CAN 4x0,5 PVC Pairs		803722		■ - purple
CAN 2x0,75 PVC		803383		
CAN 4x0,75 PVC		803384		■ - purple
CAN 105°C PUR	Flexible application	801982		■ - purple

* Data, Network & BUS Technology catalogue

INDUSTRIAL AUTOMATION

BUS standards for industrial automation	Application	Part No.	DNB catalogue chapter*	Outer sheath colour
CAN 2x0,25 PUR	Highly flexible & drag chain	81911	BUS cables	■ - purple
CAN 4x0,25 PUR Star Quad		81912		
CAN 2x0,34 PUR		802182		■ - purple
CAN 4x0,34 PUR Star Quad		802339		
CAN 2x0,5 PVC/PE	Direct burial	804268		■ - black
CAN 4x0,5 PVC/PE Star Quad		804269		
AS-Interface EPDM 2x1,5	Flexible application	80824	BUS cables	■ - yellow
AS-Interface EPDM 2x1,5	Flexible application	80825		■ - black
AS-Interface EPDM 2x2,5	Flexible application	804408	On request	■ - yellow
AS-Interface EPDM 2x2,5	Flexible application	804409	On request	■ - black
AS-Interface TPE 2x1,5	Flexible application	801846	BUS cables	■ - yellow
AS-Interface TPE 2x1,5	Flexible application	801847		■ - black
AS-Interface TPE UL/CSA 2x1,5	Flexible application	801954		■ - yellow
AS-Interface TPE UL/CSA 2x1,5	Flexible application	801955		■ - black
AS-Interface FRNC Electrical Cabinet	Installation inside electrical cabinets	802183		■ - yellow
AS-Interface PUR 2x1,5	Highly flexible & drag chain	82434		■ - yellow
AS-Interface PUR 2x1,5	Highly flexible & drag chain	82822		■ - black
AS-Interface PUR 2x2,5	Highly flexible & drag chain	804410	On request	■ - yellow
AS-Interface PUR 2x2,5	Highly flexible & drag chain	804411	On request	■ - black
Interbus PVC	Fixed installation	80778	BUS cables	■ - pastel turquoise
Interbus Hybrid PVC		81202		
Interbus FRNC		81557		■ - pastel turquoise
Interbus PUR	Highly flexible & drag chain	81203		■ - pastel turquoise
Interbus Hybrid PUR		82696		
Multibus I 15 Cores PUR	Highly flexible, robot & drag chain	801652	BUS cables	■ - purple
Multibus II 15 Cores PUR		804115		■ - purple
Devicenet™ Thick PVC	Fixed installation	800683	BUS cables	■ - grey
Devicenet™ Thin PVC		800684		
Devicenet™ Thick FRNC	Fixed installation	800681		■ - purple
Devicenet™ Thin FRNC		800682		
Devicenet™ Thick CPE	Fixed installation	81907		■ - yellow
Devicenet™ Thin CPE		81908		
Devicenet™ Thick PUR	Highly flexible & drag chain	81909		■ - purple
Devicenet™ Thin PUR		81910		
USB S 2.0 max. 5m	Highly flexible & drag chain	802469	BUS cables	■ - purple
USB L 2.0 max. 10m		802490		■ - purple
USB S 3.0		805787	On request	■ - purple
CC Link	Fixed installation	800497	BUS cables	■ - red
SafetyBUS FRNC	Fixed installation	800651	BUS cables	■ - yellow
SafetyBUS PUR	Highly flexible & drag chain	800652		■ - yellow
Fibre optic indoor cables, breakout cables, mini-breakout cables, indoor cables, outdoor cables, loose tubes, with FS30 and FS90 functionality, aerial fibre optic cables, flexible fibre optic cables, etc. can be found in our Data, Network & BUS Technology catalogue			Fibre optic cables	various

* Data, Network & BUS Technology catalogue

■ PROCESS AUTOMATION

BUS standards for process automation	Application	Part No.	DNB catalogue chapter*	Outer sheath colour
Profibus PA E	Fixed installation, hazardous areas	82835	BUS cables	■ - blue
Profibus PA	Fixed installation	82836		■ - black
Profibus PA EX Armoured	Fixed installation, hazardous areas	802180		■ - blue
Profibus PA Armoured	Fixed installation	802181		■ - black
Profibus PA Long Distance EX	Fixed installation, hazardous areas	800650		■ - blue
Profibus PA Long Distance	Fixed installation	800715		■ - black
Foundation™ Fieldbus Basic	Flexible application	803354	BUS cables	■ - orange
Foundation™ Fieldbus Type A + Green/Yellow	Flexible application	801191		■ - yellow
Foundation™ Fieldbus Type A Armoured	Fixed installation	801192		■ - yellow
Foundation™ Fieldbus Type A	Flexible application	801193		■ - yellow

■ BUILDING TECHNOLOGY

Bus standards for building installation	Application	Part No.	DNB catalogue chapter*	Outer sheath colour
LAN Cat 5e U/UTP 4x2xAWG24/1 PVC	Fixed installation	80053	Copper data cables	■ - grey
LAN Cat 5e U/UTP 4x2xAWG24/1 PVC UL	Fixed installation	802171		■ - grey
LAN Cat 6 U/UTP 4x2xAWG24/1 PVC	Fixed installation	802172		■ - grey
LAN Cat 5 U/UTP flex 4x2xAWG26/7 PVC	Flexible	80055		■ - grey
LAN Cat 5E F/UTP 4x2xAWG24/1 PVC	Fixed installation	80043		■ - yellow
LAN Cat 5 F/UTP flex 4x2xAWG26/7 FRNC	Flexible	81278		■ - grey
LAN Cat 5 F/UTP 4x2xAWG24/1 FRNC FE60	Fixed installation	804045		■ - red
LAN Cat 5E F/UTP flex 4x2xAWG26/7 PVC	Flexible	802173		■ - grey
LAN Cat 5E SF/UTP 4x2xAWG24/1 PVC	Fixed installation	81610		■ - grey
LAN Cat 5E SF/UTP 4x2xAWG24/1 FRNC	Fixed installation	81609		■ - grey
LAN Cat 5E SF/UTP 2x(4x2xAWG24/1) FRNC	Fixed installation	81123		■ - green
LAN Cat 5E SF/UTP flex 4x2xAWG26/7 FRNC	Flexible	81254		■ - grey
LAN Cat 6 U/FTP flex 4x2xAWG26/7 PVC UL	Flexible	802174		■ - grey
LAN Cat 6 F/FTP 4x2xAWG24/1 FRNC	Fixed installation	82501		■ - green
LAN Cat 6 F/FTP 2x(4x2xAWG24/1) FRNC	Fixed installation	82502		■ - green
LAN Cat 6A F/FTP 4x2xAWG23/1 FRNC	Fixed installation	803378		■ - purple
LAN Cat 6A F/FTP 2x(4x2xAWG23/1) FRNC	Fixed installation	803379		■ - purple
LAN Cat 6A U/FTP flex 4x2xAWG26/7 FRNC	Flexible	804043		■ - grey
LAN Cat 7E S/FTP 4x2xAWG23/1 FRNC	Fixed installation	80810		■ - purple
LAN Cat 7E S/FTP 2x(4x2xAWG23/1) FRNC	Fixed installation	81446		■ - purple
LAN Cat 7 S/FTP 4x2xAWG26/7 FRNC	Flexible	80294		■ - grey
LAN Cat 7E S/FTP 4x2xAWG23/1 PVC/PVC	Outdoor installation	801147		■ - black
LAN Cat 7E S/FTP 4x2xAWG23/1 PVC	Direct burial	802167		■ - black
LAN Cat 7E S/FTP 4x2xAWG23/1 FRNC/PE	Direct burial armoured	802168		■ - black
LAN Cat 7A S/FTP 4x2xAWG23/1 FRNC	Fixed installation	803380		■ - purple
LAN Cat 7A S/FTP 2x(4x2xAWG23/1) FRNC	Fixed installation	803381		■ - purple
LAN Cat 8 S/FTP 4x2xAWG22/1 FRNC	Fixed installation	81699		■ - blue
LAN Cat 8 S/FTP 2x(4x2xAWG22/1) FRNC	Fixed installation	800647		■ - blue
LAN Cat 8 1500 S/FTP 4x2xAWG22/1 FRNC	Fixed installation	802169		■ - yellow
LAN Cat 8 1500 S/FTP 2x(4x2xAWG22/1) FRNC	Fixed installation	802170		■ - yellow
Fibre optic indoor cables, breakout cables, mini-breakout cables, indoor cables, outdoor cables, loose tubes, with FS30 and FS90 functionality, aerial fibre optic cables, flexible fibre optic cables, etc. can be found in our Data, Network & BUS Technology catalogue			Fibre optic cables	various
EIB-BUS 2-pairs PVC	Indoor - fixed installation Outdoor - fixed installation, sunlight protection required	81081	BUS cables	■ - purple
EIB-BUS 2-pairs PVC		81663		■ - green
EIB-BUS 2-pairs FRNC		80826		■ - purple
EIB-BUS 2-pairs FRNC		804042	On request	■ - green
EIB-BUS 4-pairs PVC		81077	BUS cables	■ - purple
EIB-BUS 2-pairs PE	Direct burial	802800		■ - black
LON BUS PVC	Flexible indoor	802188	BUS cables	■ - grey
LON BUS FRNC	Fixed installation indoor	802187		□ - white
Hospital-System BUS PVC	Fixed installation indoor	81085	BUS cables	■ - green
Hospital-System BUS FRNC		81447		

* Data, Network & BUS Technology catalogue

■ PLUG CONNECTORS

Industrial plug connectors	Part No.	DNB catalogue chapter*
RJ45 Harting Industrial 4P Cat 5 IP20	800986	Copper connecting equipment
RJ45 Standard Cat 5 IP20	802920	
RJ45 Standard Angled Cat 5 IP20	804234	
RJ45 Phoenix Variosub Cat 5 IP67	801318	
RJ45 Harting HAN® PushPull 4P Cat 5 IP65/67	802438	
RJ45 Harting Cat 5 IP65/67	802439	
RJ45 Harting HAN® 3A metal Cat 5 IP67	801320	
RJ45 Harting HAN® PushPull 8P Cat 5E IP65/67	802440	
RJ45 Harting RJ Industrial 8P Cat 6 IP20	802258	
RJ45 Harting HAN® PushPull 8P Cat 6 IP65/67	802441	
Sub-D-plug 9 poles in various variations	diverse	
Office plug connectors		
RJ45 Jack 8P Cat 6A	802377	Copper connecting equipment
RJ45 Jack 8P Cat 6	802916	
RJ45 Plug 8P Cat 6, TM21	801772	
RJ45 Plug 8P Cat 5, TM11	801686	
Fibre optic/POF plug connectors		
ST, SC, Duplex, LC, F-SMA, FC, DIN, MT-RJ plugs as well as couplers		Fibre optic connecting equipment
POF/HCS/MM plug connectors in various variations		

■ TOOLS & MEASUREMENT EQUIPMENT

Tools	Part No.	DNB catalogue chapter*
Fibre-optic tool case	800378	Splicing systems and measurement equipment
Fibre-optic dismantling tool HELUCUT I	800380	
Fibre-optic dismantling tool HELUCUT II	800381	
POF connector assembly case for ST plug	801186	
POF connector assembly case for F-SMA plug	801400	
POF pliers with cutting device HELUCUT'n STRIPP	800382	
POF pliers with cutting device HELUCUT'n STRIPP Multi	800383	
POF Multi stripper tool	81320	
POF HELUcrimp crimping tool	800385	
HCS connector assembly case adhesive technique for ST plug	801403	
HCS connector assembly case adhesive technique for F-SMA plug	801404	
RJ 45 crimping pliers HELUCRIMP45	82493	
RJ 45 crimping pliers for Harting robust 8 poles RJ45	802375	
Stripper/Dismantling tool for SK BUS cables	81233	
Dismantling tool HELU-LAN 12	82902	
Stripper/Dismantling tool for PROFINet cables A, B, C	801497	
Measurement equipment		
OTDR OV 1000 QUAD MDSD-SC measuring instrument	802495	Splicing systems and measurement equipment
DTX Kompact-OTDR QUAD Kit	802496	
Measuring instrument toolbox POF/TOCP 255/F07	800597	
Measuring instrument toolbox HCS	801465	
Profibus NetTEST II	800657	

*Data, Network & BUS Technology catalogue

**HELUKABEL® GmbH****Headquarters**

Dieselstraße 8-12
71282 Hemmingen
Germany
Ph. +49 (0) 7150 9209 0
Fax +49 (0) 7150 81786
dnb@helukabel.de
www.helukabel.de

**Want to order catalogues online?**

Simply go to
www.helukabel.de/publication-order

International locations

Austria • Belgium • Canada • China • Czech Republic • France • India • Indonesia • Italy • Malaysia • Netherlands
Poland • Russia • Singapore • South Africa • South Korea • Sweden • Switzerland • Thailand • Turkey
United Arab Emirates • United Kindom • United States