



HELUKABEL®



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Data, Network & BUS Technology

BUS systems

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

■ 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[®]

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CONNECTING SYSTEMS

HELUKAT[®]
CONNECTING SYSTEMS INDUSTRY

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CONNECTING SYSTEMS INDUSTRY



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*	Outer sheath colour
PROFInet Type A PVC 2x2xAWG22/1 UL 600V	Fixed installation	800653	BUS cables	■ - green
PROFInet Type A FRNC 2x2xAWG22/1 UL 600V		805653		■ - green
Profinet Type A PUR		801194		■ - green
Profinet Typ A XLPE PUR		801195		■ - green
Profinet Typ A PVC Armoured PE	Outdoor installation, rodent protection	801650		■ - black
PROFInet Type B PVC 2x2xAWG22/7 UL 600V	Flexible application	800654		■ - green
PROFInet Typ B / SERCOS PVC 2x2xAWG22/7		11007244		■ - red
PROFInet Type B FRNC 2x2xAWG22/7 UL 600V		805654		■ - green
PROFInet Type B Hybrid FRNC 2x2xAWG22/7+4x1,5 UL		801651		■ - green
PROFInet Type B Shipline FRNC 2x2xAWG22/7 UL		802185		■ - green
PROFInet Type B Festoon PVC 2x2xAWG22/7 UL 600V		803295		■ - green
PROFInet Type C PVC 2x2xAWG22/7 UL 600V		802914		■ - green
PROFInet Type C PUR 2x2xAWG22/7 UL	Highly flexible & drag chain	800655		■ - green
PROFInet Type R PUR 2x2xAWG22/19 UL 1000V	Robot & drag chain	806740		■ - green
Industrial Ethernet Torsion Kat.5 PUR 2x2xAWG22/19 UL	Torsion	802186		■ - green
Industrial Ethernet Cat 7e Robust PUR 4x2xAWG23/1 UL 600V CC-Link IE	Fixed installation	801197		■ - green
Industrial Ethernet Cat 7e FRNC 4x2xAWG23/1 UL 600V		11007775		■ - green
Industrial Ethernet Cat 7A Robust PUR 4x2xAWG23/1 UL		805680		■ - green
Industrial Ethernet Cat 7A Robustflex PUR 4x2xAWG26/7 UL 600V	Flexible application	805684		■ - green
Industrial Ethernet Cat 7 Robustflex FRNC 4x2xAWG26/7 UL		802184		■ - green
Industrial Ethernet Cat 7 Shipline FRNC 4x2xAWG24/7 GL		803382		■ - grey
Industrial Ethernet Cat 7 Drag Chain PUR 4x2xAWG24/7 UL 600V CC-Link IE	Highly flexible & drag chain	805614		■ - green
Industrial Ethernet Cat 7 Torsion PUR 4x2xAWG24/7 UL 600V	Robot	805828		■ - green
Industrial Ethernet Cat 6A PVC 4x2xAWG22/1 UL 600V	Fixed installation	11007776		■ - green
Industrial Ethernet Cat 6A FRNC 4x2xAWG22/1 UL		11007777		■ - green
Industrial Ethernet Cat 6A PUR 4x2xAWG22/1 UL 600V		11007778		■ - green
Industrial Ethernet Cat 6A Robust PVC 4x2xAWG22/1 UL CC-Link IE		803693		■ - green
Industrial Ethernet Cat 6A Drag Chain PVC 4x2xAWG24/7 UL	Highly flexible & drag chain	805704		■ - green
Industrial Ethernet Cat 6A Drag Chain PUR 4x2xAWG24/7 UL 1000V		805703		■ - green
Industrial Ethernet Cat 6A Drag Chain PUR 4x2xAWG26/7 UL 1000V		805548		■ - green
Industrial Ethernet Cat 5e FRNC 2x2xAWG24/1		Fixed installation		805655
Industrial Ethernet Cat 5e PUR 2x2xAWG24/1	805681			■ - blue
Industrial Ethernet Cat 5e FRNC 2x2xAWG26/7	Flexible application	805701		■ - blue
Industrial Ethernet Cat 5e PUR 2x2xAWG26/7 UL 1000V		805702		■ - blue
Industrial Ethernet Cat 5e PUR 4x2xAWG26/7 UL 1000V		8000068		■ - grey
Industrial Ethernet Cat 5e PUR 4x2xAWG26/7 UL 1000V		11007530		■ - blue
Industrial Ethernet Cat 5e 105°C X-FRNC WK 2x2xAWG22/7 UL		802293		■ - black
Industrial Ethernet Cat 5e Eco PUR 4x1xAWG26/19 UL	Highly flexible & drag chain	82838		■ - green
Industrial Ethernet Cat 5e EcoPUR 4x2xAWG26/19 UL 1000V		11007779		■ - green
Industrial Ethernet Cat 5e EcoPUR 4x2xAWG26/19 UL		82839		■ - green
Industrial Ethernet Cat 5 PUR 4x1xAWG24/19		80088		■ - green
Industrial Ethernet Cat 5 PUR 4x2xAWG24/19		81155		■ - green
Industrial Ethernet Cat 5 4P Torsion PUR 4x2xAWG26/19 UL	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		■ - 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











* Data, Network & BUS Technology catalogue, chapter...

INDUSTRIAL AUTOMATION






















BUS standards for industrial automation	Application	Part No.	DNB catalogue*	Outer sheath colour	
Profibus SK Standard PVC	Fixed installation	81903	BUS cables	■ - 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		■ - purple	
CAN 4x0,22 PVC Star Quad		81287		■ - purple	
CAN 4x0,22 PVC Pairs		82509		■ - purple	
CAN 2x0,34 PVC		801572		■ - purple	
CAN 4x0,34 PVC Star Quad		801573		■ - purple	
CAN 4x0,34 PVC Pairs		803344		■ - purple	
CAN 2x0,5 PVC		800571		■ - purple	
CAN 4x0,5 PVC Star Quad		800685		■ - purple	
CAN 4x0,5 PVC Pairs		803722		■ - purple	
CAN 2x0,75 PVC		803383		■ - purple	
CAN 4x0,75 PVC		803384		■ - purple	
CAN 105°C PUR		Flexible application		801982	■ - purple
CAN 2x0,25 PUR		Highly flexible & drag chain		81911	■ - purple
CAN 4x0,25 PUR Star Quad				81912	■ - purple
CAN 2x0,34 PUR	802182		■ - purple		
CAN 4x0,34 PUR Star Quad	802339		■ - purple		
CAN 2x0,5 PVC/PE	Direct burial	804268	■ - black		
CAN 4x0,5 PVC/PE Star Quad		804269	■ - black		
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		■ - yellow	
AS-Interface EPDM 2x2,5	Flexible application	804409		■ - black	
AS-Interface TPE 2x1,5	Flexible application	801846		■ - 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		■ - yellow	
AS-Interface PUR 2x2,5	Highly flexible & drag chain	804411		■ - black	
Interbus PVC	Fixed installation	80778		BUS cables	■ - pastel turquoise
Interbus Hybrid PVC		81202	■ - pastel turquoise		
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		■ - purple	
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		■ - 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 DNB catalogue			Fibre optic cables	various	

* Data, Network & BUS Technology catalogue, chapter...







■ PROCESS AUTOMATION



BUS standards for process automation	Application	Part No.	DNB catalogue*	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*	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 4x2xAWG23/1 FRNC	Fixed installation	803897		 - orange
LAN Cat 7E S/FTP 2x(4x2xAWG23/1) FRNC	Fixed installation	81446		 - purple
LAN Cat 7E S/FTP 2x(4x2xAWG23/1) FRNC	Fixed installation	803898		 - orange
LAN Cat 7 S/FTP 4x2xAW26/7 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 DNB catalogue	Fibre optic cables	various
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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		 - green
EIB-BUS 4-pairs PVC		81077		 - 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, chapter...

■ PLUG CONNECTORS

Industrial plug connectors	Part No.	DNB catalogue*
RJ45 PROFINet 4P Cat 5 IP20 metal UL	805401	Copper connecting equipment
RJ45 PROFINet 4P Cat 5 IP20 metal 90° angled UL	805402	
RJ45 PROFINet 4P Cat 5 IP20 metal 145° angled UL	11017443	
RJ45 PROFINet 8P Cat 6 IP20 metal UL	11017540	
RJ45 PROFINet 8P Cat 5 IP67 metal 180° Push Pull AIDA	11008569	
RJ45 PROFINet 8P Cat 5 IP67 metal 180° Push Pull AIDA	11008570	
RJ45 PROFINet 4P Cat 5 IP20 plastic black UL	800986	
RJ45 PROFINet 4P Cat 5 IP20 plastic grey	803841	
RJ45 Standard 568A Cat 5 IP20 plastic grey	802920	
RJ45 Standard 568A Cat 5 IP20 plastic grey 90° angled	804234	
Sub-D-plug 9 poles in various variations	diverse	
M12 d-coded 4P 568B metal AWG22-26 4-8,0mm OD	803894	
M12 d-coded 4P 568B metal 90° angled AWG22-26 4-8,0mm OD	805958	
M12 d-coded 4P PROFINet metal AWG22-26 4-8,0mm OD	805966	
M12 d-coded 4P PROFINet metal AWG20-24 5-9,7mm OD	806205	
M12 d-coded 4P PROFINet metal 90° angled AWG22-26 4-8,0mm OD	805967	
M12 x-coded 8P Industrial Ethernet metal AWG26 4-8,0mm OD	805959	
M12 x-coded 8P Industrial Ethernet metal AWG22-26 5-9,7mm OD	806206	
M12 x-coded 8P Industrial Ethernet metal 90° angled AWG26 4-8,0mm OD	805960	
Sub-D-plug 9 poles in various variations	diverse	
PROFINet & Industrial Ethernet harnesses with RJ45 or M12 d- or x-coded connectors (plug & play solution)		Flyer Industrial Ethernet
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*	
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			
Measuring instrument toolbox POF/TOCP 255/F07	800597		measurement equipment
Measuring instrument toolbox HCS	801465		
Profibus NetTEST II	800657		

* Data, Network & BUS Technology catalogue, chapter...



■ CONTACTS

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