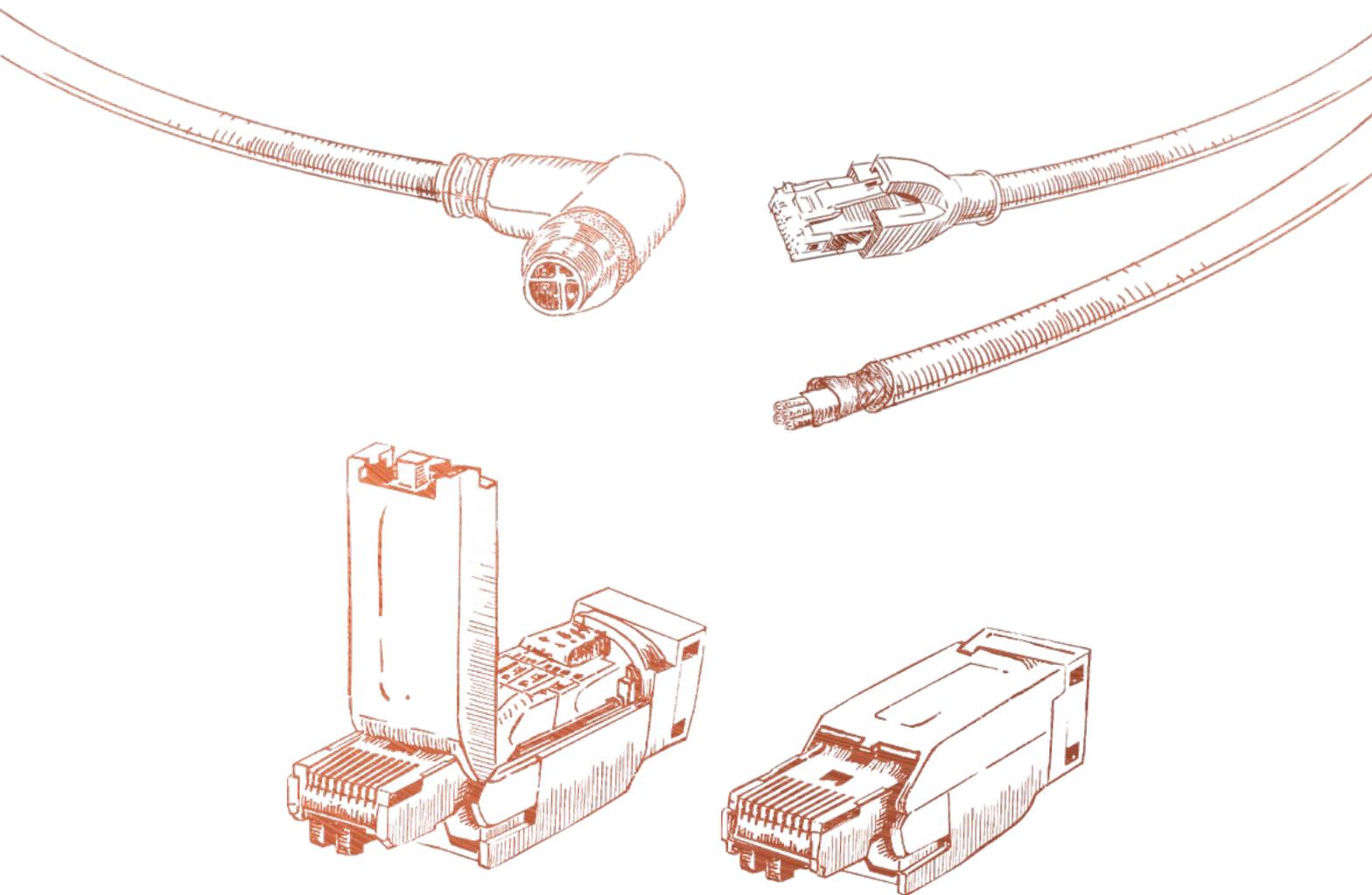


Cables, Connectors, Pre-assembly, Tools

INDUSTRIAL ETHERNET

Ed. 1.1 // EN



**(Channeling
POWER)** 

Copper Cables

Part no.	Type	Application	Cat.	UL	Core Ø	Cable Ø
					nom. in mm	
800653	PROFInet A	2x2xAWG22/1 PVC	Standard, fixed	5	CMG PLTC AWM 600V	6.5
805653		2x2xAWG22/1 FRNC	Halogen-free, fixed		CM AWM 600V	
801194		2x2xAWG22/1 PUR	Robust, fixed		N/A	
801195		2x2xAWG22/1 PUR	Radiation-resistant, fixed		N/A	
801650		2x2xAWG22/1 PVC/PE	Armoured, outdoor, fixed		N/A	
800654	PROFInet B	2x2xAWG22/7 PVC	Standard, flexible	5	CMG PLTC AWM 600V	6.5
805654		2x2xAWG22/7 FRNC	Halogen-free, flexible		CM AWM 600V	
802185		2x2xAWG22/7 FRNC	Shipbuilding, flexible		CM PLTC 60 V	
803295		2x2xAWG22/7 PVC	Festoon, flexible		CMG PLTC AWM 600V	
802293		2x2xAWG22/7 X-FRNC	Wind turbines, flexible		AWM 300V	
801651	PROFInet B Hybrid	2x2xAWG22/7+4x1,5 FRNC	Halogen-free, flexible	5	AWM 150V	10.3
802914	PROFInet C	2x2xAWG22/7 PVC	Drag chain		CMG PLTC AWM 600V	
800655		2x2xAWG22/7 PUR	Drag chain		CMX	
11007800	PROFInet R	2x2xAWG22/19 PUR	Robotics	6 _A	AWM 1000V	6.5
11022499		2x2xAWG22/19 PUR	Robotics		AWM 600V	
805699	Industrial Ethernet	2x2xAWG24/1 FRNC	Halogen-free, fixed	5	N/A	5.6
805700		2x2xAWG24/1 PUR	Robust, fixed		N/A	5.6
805701		2x2xAWG26/7 FRNC	Halogen-free, flexible		N/A	5.6
805702		2x2xAWG26/7 PUR	PUR, flexible		AWM 1000V	5.7
800068		4x2xAWG26/7 PUR	Robustflex, flexible		AWM 1000V	5.8
82838		4x1xAWG26/19 PUR	Drag chain Eco		AWM 30V	4.8
82839		4x2xAWG26/19 PUR	Drag chain Eco		AWM 30V	6.6
11007779		4x2xAWG26/19 PUR	Drag chain Eco		AWM 1000V	6.6
800088		4x1xAWG24/19 PUR	Drag chain		N/A	6.2
81155		4x2xAWG24/19 PUR	Drag chain		N/A	9.5
802186		2x2xAWG22/19 PUR	Torsion		AWM 80V	6.5
800067		4x2xAWG26/19 PUR	Torsion		AWM 30V	7.5
805655		4x2xAWG24/1 PVC	Standard, fixed		CMG	8.0
805681		4x2xAWG24/1 PVC	Standard, fixed		AWM 30V	8.0
805658		4x2xAWG24/7 PVC	Drag chain		CMG	8.0
803387		4x2xAWG26/7 PUR	Drag chain		CMX AWM 1000V	7.8
803693		4x2xAWG24/1 PVC	Standard, fixed		CMG	9.6
11007777		4x2xAWG22/1 FRNC	Halogen-free, fixed		CM	8.7
11007778		4x2xAWG22/1 PUR	Robust, fixed		CMX AWM 600V	8.7
11007776		4x2xAWG22/1 PVC	Standard, fixed		CMG AWM 600V	8.7
805704	4x2xAWG24/7 PVC	Drag chain	CM	8.9		
805703	4x2xAWG24/7 PUR	Drag chain	CMX AWM 1000V	8.9		
805548	4x2xAWG26/7 PUR	Drag chain	CMX AWM 600V	7.8		
801197	4x2xAWG23/1 PUR	Robust, fixed	7e AWM 1000V	7.7		
802184	4x2xAWG26/7 PUR	Robustflex	AWM 30V	6.4		
11021853	4x2xAWG24/7 FRNC	Shipbuilding, flexible	7 GL DNV	8.7		
805614	4x2xAWG24/7 PUR	Drag chain	CMX AWM 600V	8.7		
805828	4x2xAWG24/7 PUR	Robotics	CMX AWM 600V	8.7		
11007775	4x2xAWG23/1 FRNC	Halogen-free, fixed	7e AWM 600V	7.8		
805680	4x2xAWG23/1 PUR	Robust, fixed	AWM 300V	7.8		
805684	4x2xAWG26/7 PUR	Robustflex, flexible	AWM 600V	6.2		
81610	CC-Link IE	4x2xAWG24/1 PVC	Standard, fixed	5	N/A	6.4
803693		4x2xAWG22/1 PVC	Standard, fixed	6 _A	CMG	9.6
80810		4x2xAWG23/1 FRNC	Halogen-free, fixed	7e	N/A	7.5
801197		4x2xAWG23/1 PUR	Robust, fixed	7e	AWM 1000V	7.7
805614		4x2xAWG24/7 PUR	Drag chain	7	CMX	8.7

TOOLS

Part no.	Type	Description
801497	PROFInet SK Stripping Tool	Dismantling and stripping of the PROFInet™ type A, B and C with nom. 6.5 mm external diameter in one working cycle
82902	ETHERNET Stripping Tool	Dismantling of screened or unscreened data cables of 0.5 - 12.5 mm. Cutting of cables to 4 mm ² possible.

801497



82902

Please find details in our "Data, Network and Bus Technology" catalogue.

Copper Connectors

RJ45 - Copper Connectors

Part no.	Cat.	Connector	Pins	Core Ø in mm	Cable Ø in mm	AWG solid	AWG stranded	UL	Cl.	Standard		
800986	5	straight	4	max. 1,6	6,1-6,9	22-23	22-24/7	ja	IP20	PROFINet		
803841		straight			4,5-8,0	22-26	22-26/7			PROFINet		
802920		straight	8		4,5-8,0	22-26/7				TIA 568 A/B		
804234		angled 90°			4,5-8,0	23-26	26-23/7			TIA 568 A/B		
11024689		straight, metal	4		6,3-6,7	22-24				PROFINet		
11024690		angled 90°, metal			PROFINet							
11017443		angled 145°			PROFINet							
11008569		PushPull straight, metal			6,5-9,5	22-27	22-27/7		IP67	PROFINet		
805781		straight	4		4,5-9,0	22-24	22-27		nein	PROFINet		
805782		angled 45°			4,5-8,0					PROFINet		
11017540		straight	6		k.A.	max. 8,0	24		24/7	ja	PROFINet	
11026484		angled 90°			6,8-8,2	max. 8,0	24		24,7		PROFINet	
805783		straight	6 _A		max. 1,6	4,5-9,0	22-24		22-27	ja	IP20	TIA 568 A/B
805784		angled 45°			max. 1,6	4,5-8,0	22-24		22-27		TIA 568 A/B	
804544	straight, metal	max. 1,6		5,0-9,5	22-26	22-27/7	TIA 568 A					
11022946	straight, metal	1,0-1,6		5,5-10,0	22-24	22-24/19	TIA 568 B					
11017885	straight	1,0-1,4		6,0-7,5	26-23	26-23	TIA 568 A/B					
11017766	straight	1,0-1,4		7,0-8,5	26-23	26-23	TIA 568 A/B					
11017767	8	straight		1,0-1,4	7,0-8,5	24-22	24-22	TIA 568 A/B				



M12 - Copper Connectors

Part no.	Cat.	Connector	Pins	Core Ø in mm	Cable Ø in mm	AWG Dr. / Li.	UL	Cl.	Standard			
803894	5	straight, metal	4	max. 1.6	4.0-8.0	22-26	yes	IP67				
805958		angled 90°, metal							PROFINet			
805966		straight, metal							22-26	PROFINet		
806205		straight, metal							max. 2	5.0-9.7	20-24	PROFINet
805967		angled 90°, metal							max. 1.6	4.0-8.0	22-26	PROFINet
805959	6 _A	straight, metal	8	N/A	4.0-8.0	26	yes	IP67				
806206	straight, metal	max. 2		5.0-9.7					22-26			
805960	angled 90°, metal	N/A		4.0-8.0					26			

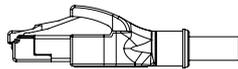


Pre-assembled Copper Cables

PROFINET & INDUSTRIAL ETHERNET & CC-LINK IE

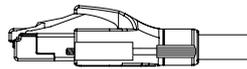
Connector side A	Cable type & length according to specifications	Connector side B
RJ45 or M12	PROFINet A	RJ45 or M12
	PROFINet B	
	PROFINet C	
	Industrial Ethernet fixed, flexible or drag chain / torsion	
RJ45	CC-Link IE	RJ45

RJ45 - Conector IP20



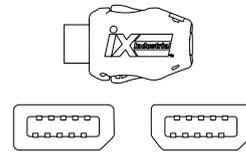
RJ45 180° central

RJ45 - ScrewVision



RJ45 180° central

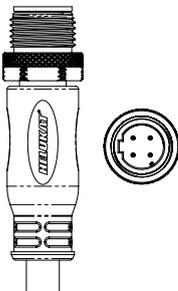
ix Industrial



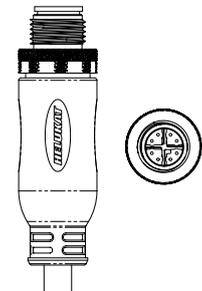
A- coded

C- coded

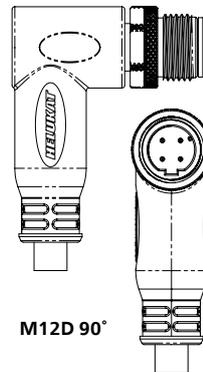
M12 - Male Connector IP67



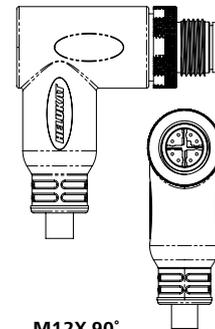
M12D 180°



M12X 180°

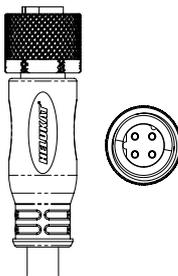


M12D 90°

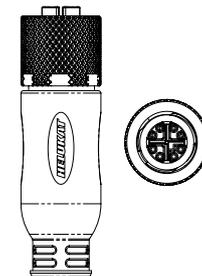


M12X 90°

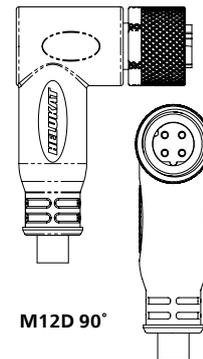
M12 - Female Connector IP67



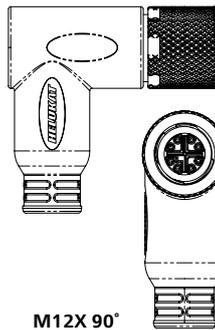
M12D 180°



M12X 180°



M12D 90°



M12X 90°

PATCHKABEL HELUKAT® CONNECTING SYSTEMS INDUSTRY

PROFInet A 2x2xAWG22/1

PVC jacket, fixed, UL CMG 75°C,
PLTC / AWM 21694 600V CSA FT4
Technical data: **Part no. 800653**

Part no.	Connector Combination	Length in m
806393	double-sided straight RJ45 IP20 4P	0.5
806394		1.0
806395		2.0
806396		3.0
806397		5.0
806398		10.0
806399		15.0
11023954		20.0
806400		25.0
806457	straight on both sides M12 D-coded IP 67	0.5
806458		1.0
806459		2.0
806460		3.0
806461		5.0
806462		10.0
806463		15.0
11020958		20.0
806464		25.0
806489		double-sided 90° angled M12 D-coded IP 67
806490	1.0	
806491	2.0	
806492	3.0	
806493	5.0	
806494	10.0	
806495	15.0	
11023955	20.0	
806496	25.0	
11023956	RJ45, IP20 4P to M12 D-coded IP 67	
11023957		1.0
11023958		2.0
11023959		3.0
11023960		5.0
11023961		10.0
11023962		15.0
11011527		20.0
11023963		25.0
11001526		30.0
11023964		40.0
11023965		50.0
11023966		60.0
11023967		70.0
11023968		80.0
11023969		90.0
11023970		100.0

PROFInet B 2x2xAWG22/7

PVC jacket, flexible use, UL CMG 75°C,
PLTC / AWM 21694 600V CSA FT4
Technical data: **Part no. 800654**

Part no.	Connector Combination	Length in m
806401	double-sided straight RJ45 IP20 4P	0.5
806402		1.0
806403		2.0
806404		3.0
806405		5.0
806406		10.0
806407		15.0
11023971		20.0
806408		25.0
806465	straight on both sides M12 D-coded IP 67	0.5
806466		1.0
806467		2.0
806468		3.0
806469		5.0
806470		10.0
806471		15.0
11021043		20.0
806472		25.0
806497		double-sided 90° angled M12 D-coded IP 67
806498	1.0	
806499	2.0	
806500	3.0	
806501	5.0	
806502	10.0	
806503	15.0	
11023972	20.0	
806504	25.0	
11009234	RJ45, IP20 4P to M12 D-coded IP 67	
11023973		1.0
11008404		2.0
11009235		3.0
806521		5.0
806522		10.0
11020222		15.0
806523		20.0
806524		25.0
11023974		30.0
806525		40.0
806526		50.0
806527		60.0
806528		70.0
806529		80.0
806530		90.0
806531		100.0

PROFInet C 2x2xAWG22/7

PUR jacket, drag chain,
UL CMX 75°C
Technical data: **Part no. 800655**

Part no.	Connector Combination	Length in m
806409	double-sided straight RJ45 IP20 4P	0.5
806410		1.0
806411		2.0
806412		3.0
806413		5.0
806414		10.0
806415		15.0
806733		20.0
806416		25.0
806481	straight on both sides M12 D-coded IP 67	0.5
806482		1.0
806483		2.0
806484		3.0
806485		5.0
806486		10.0
806487		15.0
11000566		20.0
806488		25.0
806505		double-sided 90° angled M12 D-coded IP 67
806506	1.0	
806507	2.0	
806508	3.0	
806509	5.0	
806510	10.0	
806511	15.0	
11023975	20.0	
806512	25.0	
11008341	RJ45, IP20 4P to M12 D-coded IP 67	
11008342		1.0
11008343		2.0
11008344		3.0
11008345		5.0
11008346		10.0
11008347		15.0
11021516		20.0
11008348		25.0
11021886		30.0
11009067		40.0
11023976		50.0
11023977		60.0
11023978		70.0
11023979		80.0
11023980		90.0
11023981		100.0

* M12 D-coded 4-pin assignment only



Our products are UL/CSA approved.

For further information, variants and dimensions, see data sheets under:
www.helukabel.com/99999en (replace the red numbers with the relevant part no.)

Further information can be found in our Download Center:
www.helukabel.de/download-center

PROFnet C 2x2xAWG22/7

PVC jacket, drag chain,
UL CMG 75°, PLTC / AWM 600V CSA FT4
Technical data: **Part no. 802914**

Part no.	Connector Kombination	Länge in m	
806417	straight on both sides RJ45 IP20 4P	0.5	
806418		1.0	
806419		2.0	
806420		3.0	
806421		5.0	
806422		10.0	
806423		15.0	
11023982		20.0	
806424		25.0	
806473	straight on both sides M12 D-coded IP 67	0.5	
806474		1.0	
806475		2.0	
806476		3.0	
806477		5.0	
806478		10.0	
806479		15.0	
11023983		20.0	
806480		25.0	
806513	double-sided angled 90° M12 D-coded IP 67	0.5	
806514		1.0	
806515		2.0	
806516		3.0	
806517		5.0	
806518		10.0	
806519		15.0	
11023984		20.0	
806520		25.0	
11007406	RJ45, IP20 4P to M12 D-coded IP 67	0.5	
11007407		1.0	
11007408		2.0	
11007409		3.0	
11007410		5.0	
11007411		10.0	
11007412		15.0	
11007413		25.0	
11023985			30.0
11009039			40.0
11023986		50.0	
11023987		60.0	
11023988		70.0	
11023989		80.0	
11023990		90.0	
11023991		100.0	

PROFnet B 2x2xAWG22/7

PVC jacket, blue, flexible use, UL CMG 75°C, PLTC / AWM 21694 600V CSA FT4
Technical data: **Part no. 804283**

Part no.	Connector Kombination	Length in m
11023915	straight on both sides RJ45 IP20 4P	0.5
11023917		1.0
11023918		2.0
11023919		3.0
11023920		5.0
11023992		10.0
11023993		15.0
11023994		20.0
11023995		25.0
11023996	straight on both sides M12* D-coded IP67	0.5
11023907		1.0
11023997		2.0
11023998		3.0
11023921		5.0
11023905		10.0
11023906		15.0
11023908		20.0
11023909		25.0

HELUKAT® 100IND

2x2xAWG26/7, PUR jacket, blue flexible use, UL AWM 21576 1kV technical details: **Part no. 805702**

Part no.	Connector Kombination	Length in m	
11023999	straight on both sides RJ45 IP20 4P	0.5	
11024000		1.0	
11024001		2.0	
11024002		3.0	
11024003		5.0	
11024004		10.0	
11024005		15.0	
11024006		20.0	
11024007		25.0	
11021852	straight on both sides M12* D-coded IP67	0.5	
11007422		1.0	
11007423		2.0	
11009212		3.0	
11009213		5.0	
11007426		10.0	
11024008		15.0	
11024009		20.0	
11024010		25.0	
11024011	RJ45, IP20 4P to M12 D-coded IP 67	0.5	
11024012		1.0	
11017649		2.0	
11024013		3.0	
11024014			5.0
11024015			10.0
11024016			15.0
11024017			20.0
11024018		25.0	

* M12 D-coded only 4-pin assignment

HELUKAT® 100 SF/UTP Cat.5e

4x2xAWG26/19, PUR jacket, Drag chain, UL AWM
Technical data: **Part no. 82839**

Part no.	Connector Kombination	Length in m
806546	straight on both sides RJ45 IP20 4P	0.5
806547		1.0
806548		2.0
806549		3.0
806550		5.0
806551		10.0
806552		15.0
806553		20.0
806554		25.0
806564	straight on both sides M12 D-coded IP 67	0.5
806565		1.0
806566		2.0
806567		3.0
806568		5.0
806569		10.0
806570		15.0
806571		20.0
806572		25.0
806573	double-sided 90° angled M12 D-coded IP 67	0.5
806574		1.0
806575		2.0
806576		3.0
806577		5.0
806578		10.0
806579		15.0
806580		20.0
806581		25.0
11024019	RJ45, IP20 4P to M12 D-coded IP 67	0.5
11024020		1.0
11024021		2.0
11007876		3.0
11024022		5.0
806754		10.0
806757		15.0
806756		20.0
11024023		25.0

HELUKAT® 200 INDSF/UTP Cat.5e

4x2xAWG26/7, PUR jacket for flexible use, AWM 21576
Technical data: **Part no. 800068**

Part no.	Connector Kombination	Length in m
806532	straight on both sides RJ45 IP20 8P	0.5
806533		1.0
806534		2.0
806535		3.0
806536		5.0
806537		10.0
806538		15.0
806539	straight on both sides M12 D-coded IP 67	0.5
806540		1.0
806541		2.0
806542		3.0
806543		5.0
806544		10.0
806545		15.0

HELUKAT® 500IND Extraflex

4x2xAWG26/7, LS0H-TPE jacket,
flexible use
technical details: **Part no. 11023932**

Part no.	Connector Combination	Length in m
11007747	straight on both sides RJ45 IP20 8P	0.15
11007748		0.25
11007749		0.5
11007750		1.0
11007751		1.5
11007752		2.0
11007753		3.0
11007754		5.0
11007755		7.5
11007756		10.0
11007757	15.0	

HELUKAT® 500S SF/FTP Cat.6A

4x2xAWG26/7, PUR jacket
for drag chain, UL CMX 75°
technical details: **Part no. 805548**

Part no.	Connector Combination	Length in m
806600	straight on both sides M12 X-coded IP 67	0.5
806601		1.0
806602		2.0
806603		3.0
806604		5.0
806605	10.0	
806606	15.0	
806607	20.0	
806608	25.0	
806609	double sided 90° angled M12 X-coded IP 67	0.5
806610		1.0
806611		2.0
806612		3.0
806613		5.0
806614		10.0
806615		15.0
806616		20.0
806617	25.0	

HELUKAT® 600INDS/FTP Cat.6A

4x2xAWG26/7, PUR jacket
flexible use, UL AWM 20963
technical details: **Part no. 802184**

Part no.	Connector Combination	Length in m
806618	straight on both sides RJ45 IP20 8P	0.5
806619		1.0
806620		2.0
806621		3.0
806622		5.0
806623		10.0
806624		15.0
806625		20.0
806626		25.0
806636		straight on both sides M12 X-coded IP 67
806637	1.0	
806638	2.0	
806639	3.0	
806640	double sided 90° angled M12 X-coded IP 67	5.0
806641		10.0
806642		15.0
806643		20.0
806644		25.0
806645	double sided 90° angled M12 X-coded IP 67	0.5
806646		1.0
806647		2.0
806648		3.0
806649		5.0
806650		10.0
806651		15.0
806652		20.0
806653	25.0	

HELUKAT® 100INDS/FTP Cat.6A

4x2xAWG26/7, patchcable 600V, PUR
green jacket, flexible use, UL AWM 20963
technical details: **Part no. 805684**

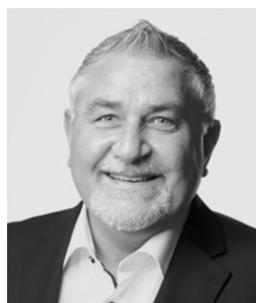
Part no.	Connector Combination	Length in m
11018102	straight on both sides RJ45 IP20 8P	0.5
11018814		1.0
11018103		2.0
11018104		3.0
11018174		5.0
11019013		10.0
11027282		15.0
11027283		20.0
11027284		25.0

HELUKAT® 600INDS/FTP Cat.6A

4x2xAWG26/7, PUR jacket
flexible use, UL AWM
technical details: **Part no. 802184**

Part no.	Connector Combination	Length in m
11023236	straight on both sides ix A-coded	0.2
11023281		0.25
11023237		0.3
11023282		0.5
11022931		0.75
11023238		1.0
11022932		1.5
11022933		2.0
11022934		2.5
11022935		3.0
11023239	5.0	
11023240	7.5	
11023241	10.0	
11023283	straight on both sides ix C-coded	0.2
11023285		0.25
11023227		0.3
11023228		0.5
11023229		1.0
11023230		1.5
11023231		2.0
11023232		3.0
11023233		5.0
11023234		7.5
11023235	10.0	
11020172	straight on both sides RJ45 IP20 8P to RJ45 ScrewVision	0.25
11019218		0.5
11020173		1.0
11020174		1.5
11020175		2.0
11020176		3.0
11020177		5.0
11020178		7.5
11020179		10.0
11020180		15.0

Contact



Our product expert is available to answer your questions and provide customised solutions:

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