

Belden Automation Cables

Reference Selection IEC & UL



REFERENCE GUIDE



Value offering

Belden communication cables offer optimal and robust solutions for general and industrial automation. Choosing Belden is a winning choice thanks to several differentiating features. Amongst them the following are worth being highlighted:

- Large choice of products, several being referenced by leading system manufacturers
- Large capability and ease of creating customized products
- Outstanding quality and reliability proven by our standard 10 year cable product warranty
- Ease of installation and handling, flexibility of put up and coloring
- Short manufacturing lead time and large base of partners maintaining inventory

This document introduces to the main communication cable families, including examples of illustrative part numbers and links to more information.

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Overview of main product families

Main Cable Types	Main Families	Description and Standards	Reference Example
Optical Fiber Cables	Loose Tube	Premium loose tube cable for universal environment, including high flame rating (CPR, UL, IEC) and extended operating temperature and protections	GUSN
	Distribution	Premium distribution cable, including high flame rating (CPR, UL, IEC) and environmental protection	GUMT
Ethernet Category Cables	DataTuff	Premium Ethernet cable providing robustness in harsh environment, including high flame rating (CPR, UL, IEC)	74004NH
	IBDN	Premium Ethernet cable, including high flame rating (CPR, IEC)	1885ENH
	Wirenet	Commercial grade Ethernet cable, including high flame rating (CPR, IEC)	2202ELW
	Single Pair Ethernet	Premium Single Pair Ethernet cable providing robustness in harsh environment, including high flame rating (CPR, UL, IEC)	74032PU
Fieldbus & Low Capacitance Cables	RS 485/422/232 for Modbus, CANopen, BacNet MS/TP and other	Premium RS 485/422/232 cable providing robustness and extended reach, including high flame rating (CPR, UL, IEC) and EMC protection	9841, 9501
	PROFIBUS DP/PA, Foundation fieldbus	Premium PROFIBUS DP/PA and foundation fieldbus cable providing robustness and extended length high flame rating (CPR, UL, IEC) and EMC protection	3079A, 3076F
	Classics	Premium low capacitance communication cable providing robustness and extended reach, including high flame rating (CPR, UL, IEC).	8760ELW
	KNX / LonWorks	Premium KNX and Lonworks cable, including high flame rating (CPR, IEC)	77906ELW
	NewGen	Commercial grade communication and control cable, including high flame rating (CPR, UL, IEC)	4300ULW
	Access Control	Premium access control composite cable range, including high flame rating (CPR, UL, IEC)	558ANH

Collaterals & Tools - Selection

Belden online webpages provides up to date information on available resources and a certain number of useful tools.

[Belden.com](https://www.belden.com)

[Connector Cross Reference](#)

[CPR rated cable](#)

[Conduit Fill Calculator](#)

Online PDF documents are easy to read and share for our customers. The below overview provides a selection of relevant collaterals covering a large part of the portfolio.

Focus market	Audio, Control & Instrumentation	Fieldbus / Low capacitance / Coaxial	Category / Single Pair Ethernet	Fiber	Management / Infrastructure
Multi Purpose	NewGen Reference Guide - IEC & UL	Belden RS-485 Cables	DataTuff Single pair Ethernet - UL&IEC	Optical Fiber Cable Reference Guide - IEC	
	NewGen Quick reference - UL	Belden Classics - UL	Datatuff IE solutions - IEC & UL	Fiber Cable for Harsh Environments - UL	
	Safe-T-Line - IEC & UL	Greenchoice LSZH classics - UL	Industrial Ethernet Cable & Connectivity Solutions - UL		
	LSZH speaker cable - IEC	SpaceMaker - UL	Indoor/Outdoor Outside plant Category cables - UL		
	Machflex series cable and connectivity - IEC	Foundation Fieldbus XLPE insulated Cables IEC & UL	IBDN Copper Connectivity Solutions - IEC	IBDN Fiber Connectivity Solutions - IEC	Rack & Cabinet Systems- UL
	Instrumentation - IEC	Foundation Fieldbus Type A H1 Fire Resistant Cable IEC & UL	Wirenet commercial grade for networking solutions - IEC	Fiber Product Selection guide for Data Center and Lan - UL	Racks and Cabinet Systems - IEC
	Control and Instrumentation - IEC	KNX/EIB Approved Cables IEC	Belden Copper Catalog - UL	Belden Optical Fiber Catalog - UL	
	Fire Survival & circuit integrity Cable - IEC		Patchpro		
Data Center & Broadcast		Professional video cable and connectors	Broadcast and Datacenter - IEC		
	Audio Video Solutions - IEC				
Transportation	DNV Certified Category & Fiber Cables				
	MarineTuff Offshore and Marine Cable Solutions - UL				
	Cable for Transportation - UL				
	Solution for Rolling Stock - IEC				
	Bus & Coach Cables IEC/ECE R118				

Main Acronyms

Relevant acronyms		Material acronyms		Shielding Nomenclature			
AWG	American Wire Gage	LSZH	Low Smoke Zero Halogen	U	Unshielded	*/	Overall
GY	Glass Yarn	PVC	Polyvinyl chloride	S	Braid Shield	/*	Individual
CST	Corrugated Steel Armor	PE	Polyethylene	F	Foil Shield	TP	Twisted pair
SWA	Steel Wire Armor	PUR	Polyurethane				

Reference Selection*

Fiber Optic Cables

High quality loose tube and distribution cables for universal environment with high flame rating (CPR, UL, IEC) and extended operating temperature and protections.

Central Loose Tube	Reference	Armoring	Max Fiber	Location	Jacket	CPR Rating	IEC Bundle Flame Test	Fire Resistance
General Use	GUSN	-	24	Universal	LSZH	Dca-s2,d1,a1		
	GUSNC	-	24	Universal	LSZH	Cca-s1a,d1,a1		
	GUSNB	-	24	Universal	LSZH	B2ca-s1a,d1,a1		
	GOSN	-	24	Outdoor	PE			
	GUCN	CST	24	Universal	LSZH	Dca-s1,d1,a1		60331-25-E120 Annex E
	GUCNC	CST	24	Universal	LSZH	Cca-s1a,d1,a1		60331-25-E120 Annex E
	GUCNB	CST	24	Universal	LSZH	B2ca-s1a,d1,a1		60331-25-E120 Annex E
	GOCN	CST	24	Outdoor	PE			

Distribution / Mini Breakout	Reference	Armoring	Max Fiber	Location	Jacket	CPR Rating	IEC Bundle Flame Test
General Use	GUMT	-	72	Universal	LSZH	Dca-s1,d1,a1	60332-3-24
	GUMTC	-	24	Universal	LSZH	Cca-s1a,d1,a1	60332-3-24
	GUMTB	-	24	Universal	LSZH	B2ca	

Note 1 : Central Loose Tube : Glass Yarn water blocking and rodent protection, jelly filled 3,3 mm diameter loose tube, Installation Tensile Strength 1500N

Note 2 : Distribution: Glass Yarn water blocking and rodent protection



* Additional offerings and capabilities are available either on the Belden online catalog or via Belden representative. Some examples are extra number of cores, different cross section, fire resistant, direct burial, marine approved, armoring, UL, IEC & CPR ratings, or high flex. The bolded references are further advised in case of doubt within this selection.

Ethernet Category Cables

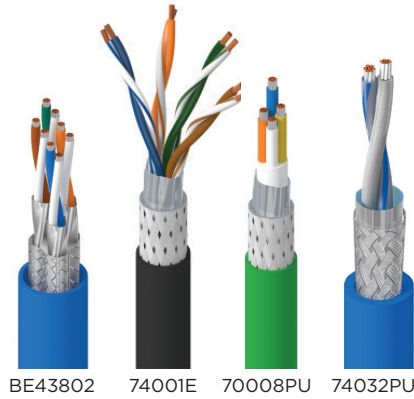
Wide selection of premium and standard Ethernet cable with high flame rating (CPR, UL, IEC) designed for robust and standard environment and applications

Ethernet	Cat	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
General Use	7A	1888ELV	4Pr	22	Solid	S/FTP	-	LSZH	B2ca-s1a,d1,a1	-	1-2
		1888ENH	4Pr	22	Solid	S/FTP	-	LSZH	Dca-s2,d1,a1	-	1-2
	7	1885ELV	4Pr	23	Solid	S/FTP	-	LSZH	B2ca-s1a,d1,a1	-	1-2
		1885ELW	4Pr	23	Solid	S/FTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
		1885ENH	4Pr	23	Solid	S/FTP	-	LSZH	Dca-s2,d1,a1	-	1-2
		1885ENC	4Pr	23	Solid	S/FTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	6A	10GB24	4Pr	23	Solid	U/UTP	-	LSZH	Eca	-	1-2
		10GX24	4Pr	23	Solid	U/UTP	-	LSZH	Eca	-	1-2
		10GXE00	4Pr	23	Solid	F/UTP	-	LSZH	Eca	-	1-2
		10GXE01	4Pr	23	Solid	F/FTP	-	LSZH	Eca	-	1-2
		10GXE02	4Pr	23	Solid	S/FTP	-	LSZH	Eca	-	1-2
		2202ELV	4Pr	23	Solid	S/FTP	-	LSZH	B2ca-s1a,d1,a1	-	1-2
		2202ELW	4Pr	23	Solid	S/FTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
		2202ELY	4Pr	23	Solid	S/FTP	-	LSZH	Dca-s2,d1,a1	-	1-2
	6	7956ELV	4Pr	23	Solid	U/UTP	-	LSZH	B2ca-s1a,d1,a1	-	1-2
		7965ELW	4Pr	23	Solid	U/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
		7965ELY	4Pr	23	Solid	U/UTP	-	LSZH	Dca-s2,d2,a1	-	1-2
		7965ENH	4Pr	23	Solid	U/UTP	-	LSZH	Eca	-	1-2
		7965E	4Pr	23	Solid	U/UTP	-	PVC	Eca	-	1-2
		2424DD	4Pr	24	Solid	U/UTP	-	LSZH	Dca-s2,d2,a1	-	1-2
2424D		4Pr	24	Solid	U/UTP	-	LSZH	Eca	-	1-2	
7860ENH		4Pr	23	Solid	F/UTP	-	LSZH	Dca-s2,d1,a1	-	1-2	
5e	1583ENH	4Pr	24	Solid	U/UTP	-	LSZH	Dca-s2,d2,a1	-	1-2	
	1583E	4Pr	24	Solid	U/UTP	-	PVC	Eca	-	1-2	
	1633ENH	4Pr	24	Solid	F/UTP	-	LSZH	Dca-s2,d2,a1	-	1-2	
	1868E	4Pr	26	Stranded	U/UTP	-	PVC	-	-	1-2	
Industrial	6A/7	74004ELV	4Pr	23	Solid	S/FTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
		74004ELW	4Pr	23	Solid	S/FTP	-	LSZH	Cca-s1,d1,a1	-	1-2
		74004NH	4Pr	23	Solid	S/FTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
		74004PU	4Pr	23	Solid	S/FTP	-	PUR	-	-	-
		74005PU	4Pr	26	Stranded	S/FTP	-	PUR	-	-	-
		74005NH	4Pr	26	Stranded	S/FTP	-	LSZH	Eca	-	1-2 & 3-24
5e	74001E	4Pr	24	Solid	SF/UTP	-	PVC	Eca	-	1-2	
	74002PU	4Pr	26	Stranded	SF/UTP	-	PUR	-	-	-	
Profinet type C&R	6A	50106AHI	4Pr	24	High Strand	SF/FTP	-	PUR	-	AWM 20554	-
	5e	70010PU	1Q	22	High strand	SF/UTP	-	PE/PUR	-	-	-
		70008PU	1Q	22	High Strand	SF/UTP	-	PUR	-	-	-
High Flex (non Profinet)	6A (5e)	74003PU	4Pr	26	High strand	SF/UTP	-	PUR	-	-	-
	SPE*	74032PU	1Pr	24	High Strand	SFTP	-	PUR	-	-	1-2
Profinet Type A/B	6A/7	74011NH	4Pr	23	Stranded	S/FTP	-	LSZH	Eca	-	1-2
	5	70006E	1Q	22	Solid	SF/UTP	-	PVC	Eca	-	1-2
		70007E	1Q	22	Stranded	SF/UTP	-	PVC	Eca	-	1-2
Fire resistant	6	NH50106UFL	4Pr	23	Solid	U/FTP	-	LSZH	-	-	1-2 & 3-22
	5e	NH50105UFL	4Pr	23	Solid	U/FTP	-	LSZH	-	-	1-2 & 3-22
		NH50105SFA	4Pr	23	Solid	S/FTP	SWA	LSZH	-	-	1-2 & 3-22
Extreme temperature	6A	IEA003	4Pr	23	Solid	U/UTP	-	FEP	Fca	-	-

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Ethernet	Cat	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
Outdoor	6	7953A	4Pr	23	Solid	F/UTP	-	PVC	Eca	CMR;CMX- Outdoor	1-2
	6	7965PE	4Pr	23	Solid	U/UTP	-	PE	-	-	-
	5e	7929A	4Pr	24	Solid	F/UTP	-	PVC	Eca	CMR;CMX- Outdoor	1-2
Direct Burial	6A	OSP6AF	4Pr	24	Solid	U/UTP	-	PE	-	-	-
	6	OSP6U	4Pr	23	Solid	U/UTP	-	PE	Fca	-	-
Rolling Stock	6A/7	BE43802	4Pr	24	Stranded	S/FTP	-	LSZH	-	-	1-2 & 3-25
	Cat5e	BE43769	1Q	22	Stranded	SF/UTP	-	LSZH	-	-	1-2 & 3-25
	SPE*	BE43910	1Pr	24	Stranded	SFTP	-	LSZH	-	-	1-2, 3-22, 3-25
Shipboard	7	50007TSF	4Pr	23	Stranded	S/FTP	-	LSZH	-	-	1-2&3-22
	6A	10GXV92	4Pr	23	Solid	S/FTP	-	LSZH	B2ca-s1a,d1,a1	-	-
	SPE*	BE46830	1Pr	22	Stranded	SFTP	-	LSZH	-	-	1-2 & 3A

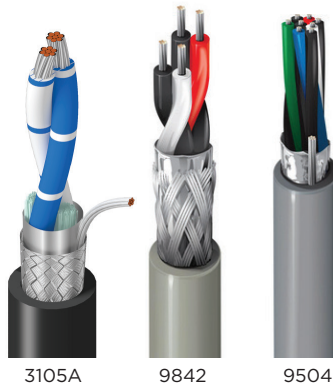
*SPE 40m 1Gb/s



Fieldbus & Low Capacitance Cables

Family and product series selector for main bus protocols

Protocol	Applications Examples	Relevant Bus Standard and Impedance	Family	Advised Product Series
Modbus RTU	Remote terminal unit, PLCs, Energy management	EIA TIA RS-485 (120Ω)	RS 485	9842** 3107**
CANopen	Machinery, Medical, Motor control	EIA TIA RS-485 (120Ω)		
BACnet MS/TP	Supervisory and programmable controllers	EIA TIA RS-485 (120Ω) for Token Passing EIA TIA RS-232 for Point to Point		
Profibus DP	Discrete sensor actuators	Profibus DP (150Ω)	Profibus DP	3079**
Profibus PA	Control systems	IEC 61158-2 (100Ω)	Profibus PA / Foundation fieldbus	3076**
Foundation fieldbus	Field instrumentation	IEC 61158-2 (100Ω)		
KNX	Systems networking in Building	KNX TP1	KNX	77906**
LonWorks	Building systems control	LonWorks	LonWorks	8471**
DMX 512	Light Control	RS-485 (120Ω) or RS-422 (100Ω) or category cables (Cat5e or more)	RS-422	9841**, 9842**



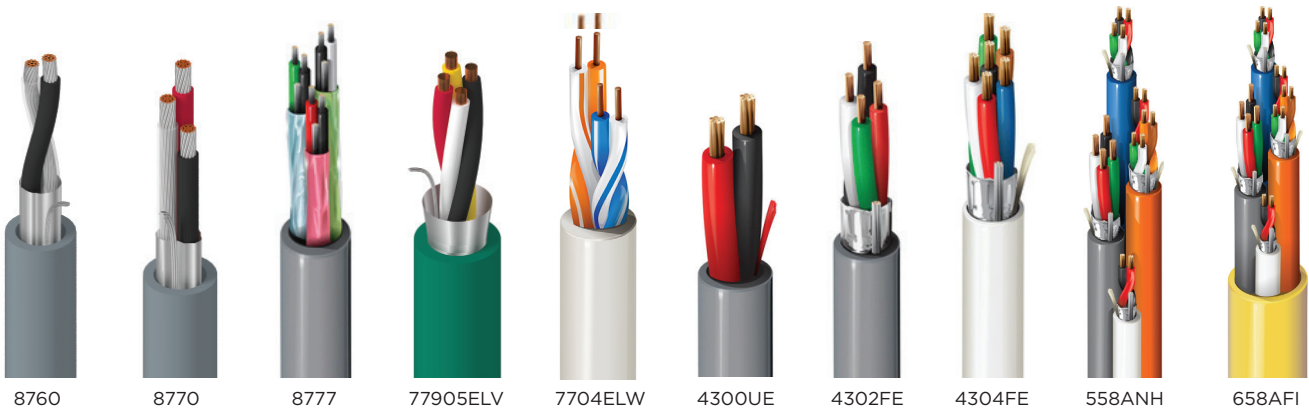
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RS-485	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR Euroclass	NEC (UL)	IEC 60332-
General Use	9841LV	1Pr	24	Stranded	SF/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
	9841LW	1Pr	24	Stranded	SF/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	9841NH	1Pr	24	Stranded	SF/UTP	-	LSZH	Dca-s2,d1,a1	-	3-4 & 3-22
	9841ZH	1Pr	24	Stranded	SF/UTP	-	LSZH	Eca	CMG	-
	9841	1Pr	24	Stranded	SF/UTP	-	PVC	Eca	CM	1-2
	9842LV	2Pr	24	Stranded	SF/UTP	-	LSZH	B2ca-s1a,d1,a1	-	1-2
	9842LW	2Pr	24	Stranded	SF/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	9842NH	2Pr	24	Stranded	SF/UTP	-	LSZH	Dca-s2,d2,a1	-	1-2 & 3-24
	9842	2Pr	24	Stranded	SF/UTP	-	PVC	Eca	CM	1-2
	Oil Res, Sun Res	3105A	1Pr	22	Stranded	SF/UTP	-	PVC	Eca	CM, PLTC
3106A		1.5 Pr	22	Stranded	SF/UTP	-	PVC	Eca	CM, PLTC	1-2
3107ELV		2Pr	22	Stranded	SF/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
3107ELW		2Pr	22	Stranded	SF/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
3107ENH		2Pr	22	Stranded	SF/UTP	-	LSZH	Eca	-	1-2
3107A		2Pr	22	Stranded	SF/UTP	-	PVC	Eca	CM, PLTC	1-2
Armored	9841LS	1Pr	24	Stranded	SF/UTP	SWA	LSZH	Eca	-	3-4 & 3-22
	9842LVS	2Pr	24	Stranded	SF/UTP	SWA	LSZH	B2ca-s1,d1,a1	-	1-2 & 3-24
	9842LS	2Pr	24	Stranded	SF/UTP	SWA	LSZH	Eca	-	1-2 & 3-24
RS-422/232	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	NEC (UL)	IEC 60332-
General Use	8102NH	2Pr	24	Stranded	SF/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	8102	2Pr	24	Stranded	SF/UTP	-	PVC	Eca	CM	1-2
	9729ELW	2Pr	24	Stranded	U/FTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	9729NH	2Pr	24	Stranded	U/FTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	9729	2Pr	24	Stranded	U/FTP	-	PVC	Eca	CM	1-2
	8103	3Pr	24	Stranded	SF/UTP	-	PVC	Eca	CM	1-2
	9730	3Pr	24	Stranded	U/FTP	-	PVC	Eca	CM	1-2
Armored	9729LS	2Pr	24	Stranded	U/FTP	SWA	LSZH	-	-	3-24
RS-232	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	NEC (UL)	IEC 60332-
General Use	9501NH	1Pr	24	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	9501	1Pr	24	Stranded	F/UTP	-	PVC	Eca	CMG	1-2
	9502NH	2Pr	24	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	9502	2Pr	24	Stranded	F/UTP	-	PVC	Eca	CMG	1-2
	9503	3Pr	24	Stranded	F/UTP	-	PVC	Eca	CMG	1-2
	9503NH	3Pr	24	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	9504	4Pr	24	Stranded	F/UTP	-	PVC	Eca	CMG	1-2
	9504NH	4Pr	24	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
Armored	9502LS	2Pr	24	Stranded	F/UTP	SWA	LSZH	-	-	3-24
Profibus DP	Reference	#Pair	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
Industrial use	3079A	1Pr	22	Stranded	SF/UTP	-	PVC	Eca	CMG, PLTC	1-2
	3079ANH	1Pr	22	Stranded	SF/UTP	-	LSZH	Eca	-	1-2 & 3-24
Armored	3079ALS	1Pr	22	Stranded	SF/UTP	SWA	LSZH	Eca	-	1-2 & 3-24
Foundation Fieldbus / Profibus PA	Reference	#Pair	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
Industrial use	3076F	1Pr	18	Stranded	F/UTP	-	PVC	Eca	CM, CMX-Outdoor, ITC-ER, PLTC-ER	1-2
	3076ENH	1Pr	18	Stranded	F/UTP	-	LSZH	Eca	-	1-2 & 3-24
Armored	3076ELS	1Pr	18	Stranded	F/UTP	SWA	LSZH	Eca	-	1-2 & 3-24

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Classics	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
General Use	8762ELV	1Pr	20	Stranded	F/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
	8762ELW	1Pr	20	Stranded	F/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	8762NH	1Pr	20	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	8762	1Pr	20	Stranded	F/UTP	-	PVC	Eca	CM	1-2
	8761NH	1Pr	22	Stranded	F/UTP	-	LSZH	Dca-s2,d1,a1	-	1-2 & 3-24
	8761	1Pr	22	Stranded	F/UTP	-	PVC	Eca	CM	1-2
	8760ELV	1Pr	18	Stranded	F/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
	8760ELW	1Pr	18	Stranded	F/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	8760NH	1Pr	18	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	CMG	1-2 & 3-24
	8760	1Pr	18	Stranded	F/UTP	-	PVC	Eca	CM	1-2
	8719ELW	1Pr	16	Stranded	F/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	8719NH	1Pr	16	Stranded	F/UTP	-	LSZH	Dca-s2,d1,a1	CMG	-
	8719	1Pr	16	Stranded	F/UTP	-	PVC	Eca	CM;CL2	1-2
	8770ELW	1Tr/3C	18	Stranded	F/UTP	-	LSZH	Cca-s1,d1,a1	-	-
	8770NH	1Tr/3C	18	Stranded	F/UTP	-	LSZH	Dca-s1,d1,a1	CMG	-
	8770	1Tr/3C	18	Stranded	F/UTP	-	PVC	Eca	CM	1-2
	8723LW	2Pr	22	Stranded	U/FTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	8723NH	2Pr	22	Stranded	U/FTP	-	LSZH	Dca-s2,d1,a1	-	1-2 & 3-24
	8723	2Pr	22	Stranded	U/FTP	-	PVC	Eca	CM	1-2
	8777ELW	3Pr	22	Stranded	U/FTP	-	LSZH	Cca-s1,d1,a1	-	1-2
8777NH	3Pr	22	Stranded	U/FTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24	
8777	3Pr	22	Stranded	U/FTP	-	PVC	Eca	CM	1-2	
Armored	8760LS	1Pr	18	Stranded	F/UTP	SWA	LSZH	-	-	3-24
	8719LWS	1Pr	16	Stranded	U/FTP	SWA	LSZH	Cca-s1,d2,a1	-	1-2 & 3-24
	8719LS	1Pr	16	Stranded	U/FTP	SWA	LSZH	Eca	-	1-2 & 3-24
	8471LS	1Pr	16	Stranded	U/UTP	SWA	LSZH	-	-	3-24
	8723LS	2Pr	22	Stranded	U/FTP	SWA	LSZH	-	-	3-24
	8777LS	3Pr	22	Stranded	U/FTP	SWA	LSZH	-	-	1-2 & 3-24

KNX	Reference	Config.	Cross section	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
General Use	77905ELV	1Pr	0.5 mm ²	Solid	F/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
	77905ELW	1Pr	0.5 mm ²	Solid	F/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	YE00905	1Pr	0.5 mm ²	Solid	F/UTP	-	LSZH	Eca	-	1-2
	YE00819	1Pr	0.5 mm ²	Solid	F/UTP	-	PVC	Eca	-	1-2
	77906ELV	2Pr	0.5 mm ²	Solid	F/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2 & 3-24
	77906ELW	2Pr	0.5 mm ²	Solid	F/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2 & 3-24
	YE00906	2Pr	0.5 mm ²	Solid	F/UTP	-	LSZH	Eca	-	1-2
	YE00820	2Pr	0.5 mm ²	Solid	F/UTP	-	PVC	Eca	-	1-2



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Lonworks	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
General use	8471ELV	1Pr	16	Stranded	U/UTP	-	LSZH	B2ca-s1,d1,a1	-	1-2
	8471ELW	1Pr	16	Stranded	U/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	8471	1Pr	16	Stranded	U/UTP	-	PVC	Eca	CMG, CL3	1-2
	7703NH	1Pr	22	Solid	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	7701ELW	1Pr	22	Solid	U/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	7701NH	1Pr	22	Solid	U/UTP	-	LSZH	Dca-s2,d1,a1	-	1-2 & 3-24
	7704ELW	2Pr	22	Solid	F/UTP	-	LSZH	Cca-s1,d1,a1	-	1-2
	7704NH	2Pr	22	Solid	F/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24
	7702NH	2Pr	22	Solid	U/UTP	-	LSZH	Dca-s1,d1,a1	-	1-2 & 3-24

NewGen	Reference	Config.	AWG	Stranding	Shield	Armor	Jacket	CPR	UL	IEC 60332-
General Use	5500FE	2C/1PR	22	Stranded	F/UTP	-	PVC	Eca	CMR	1-2
	4500FLW	2C/1PR	22	Stranded	F/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4500FE	2C/1PR	22	Stranded	F/UTP	-	LSZH	Eca	-	1-2
	5300FE	2C/1PR	18	Stranded	F/UTP	-	PVC	Eca	CMR	1-2
	4300FE	2C/1PR	18	Stranded	F/UTP	-	LSZH	Eca	-	1-2
	5300UE	2C/1PR	18	Stranded	U/UTP	-	PVC	Eca	CMR	1-2
	4300ULW	2C/1PR	18	Stranded	U/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4300UE	2C/1PR	18	Stranded	U/UTP	-	LSZH	Eca	-	1-2
	5200FE	2C/1PR	16	Stranded	F/UTP	-	PVC	Eca	CMR	1-2
	4200FE	2C/1PR	16	Stranded	F/UTP	-	LSZH	Eca	-	1-2
	5200UE	2C/1PR	16	Stranded	U/UTP	-	PVC	Eca	CMR	1-2
	4200ULW	2C/1PR	16	Stranded	U/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4200UE	2C/1PR	16	Stranded	U/UTP	-	LSZH	Eca	-	1-2
	5302FE	4C/1Q	18	Stranded	F/UTP	-	PVC	Eca	CMR	1-2
	4302FLW	4C/1Q	18	Stranded	F/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4302FE	4C/1Q	18	Stranded	F/UTP	-	LSZH	Eca	-	1-2
	4302FE	4C/1Q	18	Stranded	U/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4502FLW	4C/1Q	22	Stranded	F/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4502FE	4C/1Q	22	Stranded	F/UTP	-	LSZH	Eca	-	1-2
	5502FE	4C/1Q	22	Stranded	F/UTP	-	PVC	Eca	CMR	1-2
	5304FE	6C	18	Stranded	F/UTP	-	PVC	Eca	CMR	1-2
	4304FLW	6C	18	Stranded	F/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2
	4304FE	6C	18	Stranded	F/UTP	-	LSZH	Eca	-	1-2
	4504FLW	6C	22	Stranded	F/UTP	-	LSZH	Cca-s1a,d1,a1	-	1-2

Access control	Reference	Card reader	Door Contact	REX/Spare	Lock Power	Inner/Outer Jacket	CPR	UL	IEC 60332-
General Use	558ALV	3Pr #22	2C #22	4C #22	4C #18	LSZH Banana Peel®	B2ca-s1,d1,a1	CMG-LS	1-2
	558ALW	3Pr #22	2C #22	4C #22	4C #18	LSZH Banana Peel®	Cca-s1,d1,a1	CMG-LS	1-2
	558ANH	3Pr #22	2C #22	4C #22	4C #18	LSZH Banana Peel®	Dca-s1,d1,a1	CMG-LS	1-2
	658AFS	3Pr #22	2C #22	4C #22	4C #18	PVC Banana Peel®	Eca	CMP	1-2
	658AFJ	3Pr #22	2C #22	4C #22	4C #18	PVC Overall	Eca	CMP	1-2

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