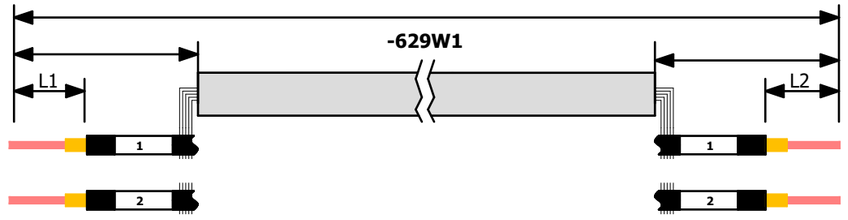
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Cable name =UNIT_01++TRA+-629W1
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	++CT+CTRL_1.3-X3:29	Fuse 230V AC for Container Air Conditioning		
Control cabinet 1	++CT+CTRL_1.3-X3:18	Earthing switch in On Transformer 620V side		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		Fuse 230V AC for Container Air Conditioning	++CONV-18Q1:13	
		Earthing switch in On Transformer 620V side	++CONV-18Q1:14	

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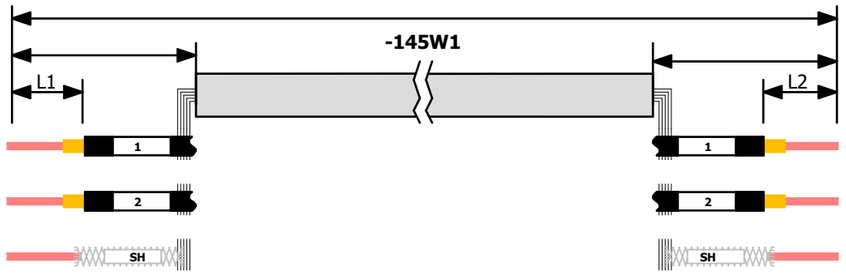
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++CONV/1

Editor	Freqcon_DG			Statron		CABEL LIST	20241105_V1.2	= UNIT_01	Converter Container 1
Date	05.11.2024							& EMB	Cable list
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ TRA	medium voltage transformer
Date								+	

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Cable name =UNIT_01++CONV+-145W1
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

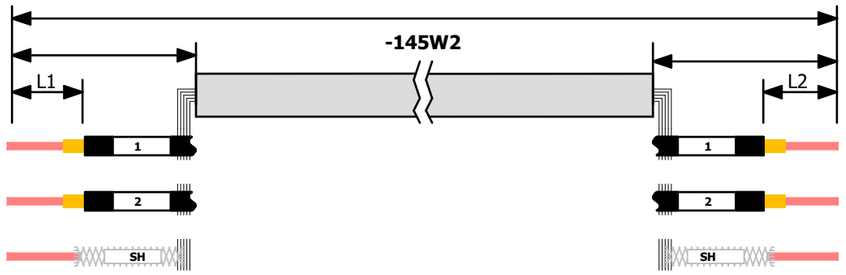


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-201L1:	INDUCTOR GRID PHASE L1 TEMPERATURE 1_1		
Inductor cabinet	+IND-201L1	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR GRID PHASE L1	++CT+CTRL_1.3-X5:1	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:2	*Control cabinet 1*
		=		

Cable name =UNIT_01++CONV+-145W2
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

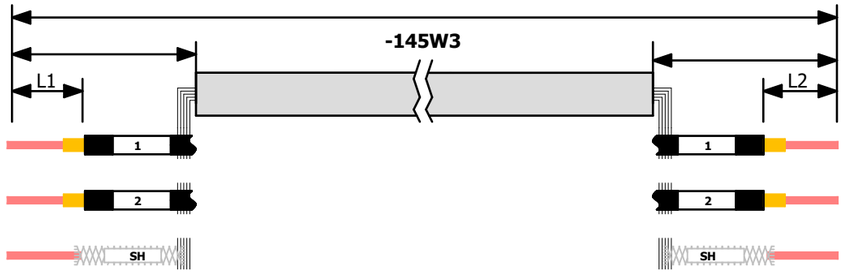


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-202L1:	INDUCTOR GRID PHASE L2 TEMPERATURE 1_2		
Inductor cabinet	+IND-202L1	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR GRID PHASE L2	++CT+CTRL_1.3-X5:3	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:4	*Control cabinet 1*
		=		

Cable name =UNIT_01++CONV+-145W3
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

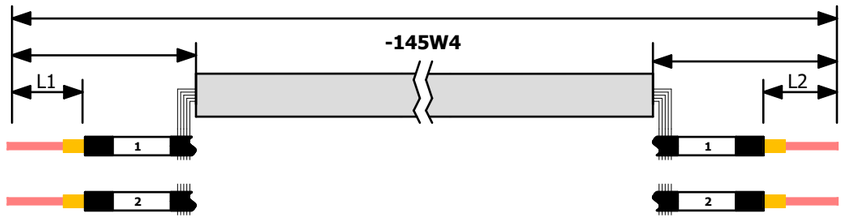


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-203L1:	INDUCTOR GRID PHASE L3 TEMPERATURE 1_3		
Inductor cabinet	+IND-203L1	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR GRID PHASE L3	++CT+CTRL_1.3-X5:5	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:6	*Control cabinet 1*
		=		

Cable name =UNIT_01++CONV+-145W4
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-211L1.1:	INDUCTOR DC SUB 2_1 TEMPERATURE 2_1		
Inductor cabinet	+IND-211L1.1	=		

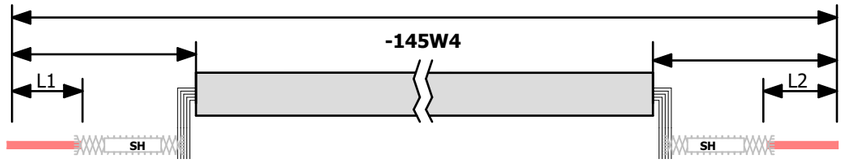
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 2_1	++CT+CTRL_1.3-X5:7	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:8	*Control cabinet 1*

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Cable name =UNIT_01++CONV+-145W4
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
	-SH	INDUCTOR DC SUB 2_1 TEMPERATURE 2_1		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 2_1		

Cable name =UNIT_01++CONV+-146W1
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-211L1.2	INDUCTOR DC SUB 2_2 TEMPERATURE 2_2		
Inductor cabinet	+IND-211L1.2	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 2_2	++CT+CTRL_1.3-X5:9	***Control cabinet 1***
		=	++CT+CTRL_1.3-X5:10	***Control cabinet 1***
		=		

Cable name =UNIT_01++CONV+-146W2
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

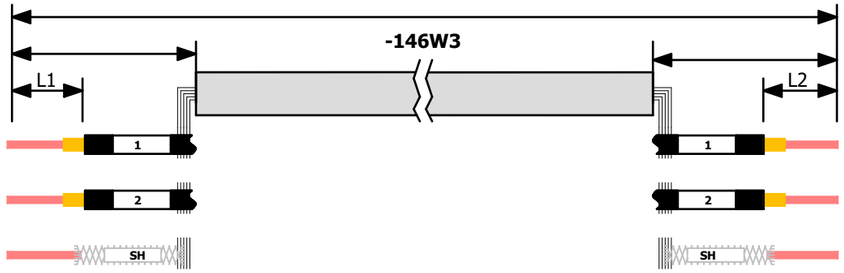


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-211L1.3	INDUCTOR DC SUB 2_3 TEMPERATURE 2_3		
Inductor cabinet	+IND-211L1.3	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 2_3	++CT+CTRL_1.3-X5:11	***Control cabinet 1***
		=	++CT+CTRL_1.3-X5:12	***Control cabinet 1***
		=		

Cable name =UNIT_01++CONV+-146W3
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-207L1.1	INDUCTOR DC SUB 3_1 TEMPERATURE 3_1		
Inductor cabinet	+IND-207L1.1	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 3_1	++CT+CTRL_1.3-X5:13	***Control cabinet 1***
		=	++CT+CTRL_1.3-X5:14	***Control cabinet 1***
		=		

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Cable name =UNIT_01++CONV+-146W4
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

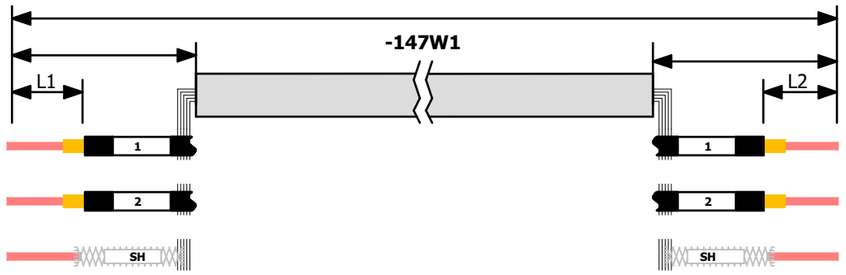


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-207L1.2	INDUCTOR DC SUB 3_2 TEMPERATURE 3_2		
Inductor cabinet	+IND-207L1.2	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 3_2	++CT+CTRL_1.3-X5:15	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:16	*Control cabinet 1*
		=		

Cable name =UNIT_01++CONV+-147W1
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

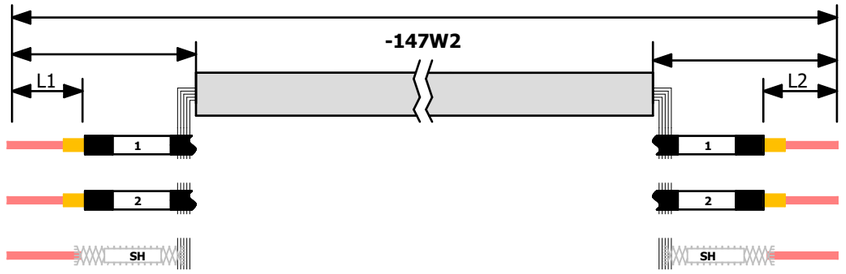


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-207L1.3:	INDUCTOR DC SUB 3_3 TEMPERATURE 3_3		
Inductor cabinet	+IND-207L1.3	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 3_3	++CT+CTRL_1.3-X5:17	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:18	*Control cabinet 1*
		=		

Cable name =UNIT_01++CONV+-147W2
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

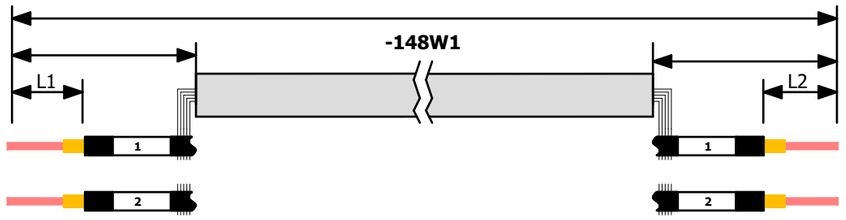


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-217L1.1:	INDUCTOR DC SUB 4_1 TEMPERATURE 4_1		
Inductor cabinet	+IND-217L1.1	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 4_1	++CT+CTRL_1.3-X5:19	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:20	*Control cabinet 1*
		=		

Cable name =UNIT_01++CONV+-148W1
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-217L1.2:	INDUCTOR DC SUB 4_2 TEMPERATURE 4_2		
Inductor cabinet	+IND-217L1.2	=		

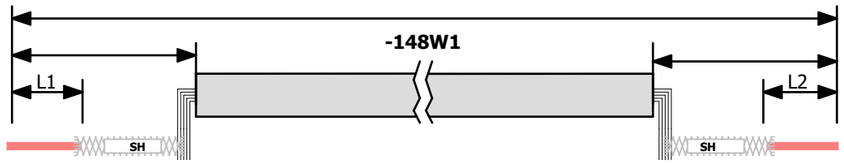
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 4_2	++CT+CTRL_1.3-X5:25	*Control cabinet 1*
		=	++CT+CTRL_1.3-X5:26	*Control cabinet 1*

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Cable name =UNIT_01++CONV+-148W1
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
	-SH	INDUCTOR DC SUB 4_2 TEMPERATURE 4_2		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 4_2		

Cable name =UNIT_01++CONV+-148W2
Cable type F-CY-OZ (LiY-CY) 2x0,75 mm²
Free conductors

Cable parts HELU.16558
Order number 16558

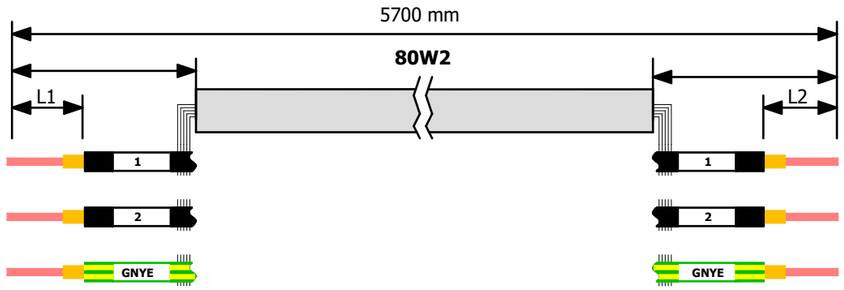


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Inductor cabinet	+IND-217L1.3:	INDUCTOR DC SUB 4_3 TEMPERATURE 4_3		
Inductor cabinet	+IND-217L1.3	=		
	-SH	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		INDUCTOR DC SUB 4_3	++CT+CTRL_1.3-X5:29	***Control cabinet 1***
		=	++CT+CTRL_1.3-X5:30	***Control cabinet 1***
		=		

Cable name =UNIT_01++CONV+-80W2
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

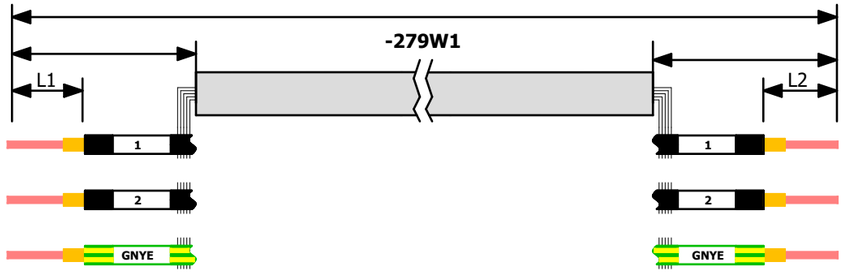


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	++CT+CTRL_1.3-XT:9	230V AC for Circuit Breaker 1	End splice	8 mm
Control cabinet 1	++CT+CTRL_1.3-XT:10	=	End splice	8 mm
Control cabinet 1	++CT+CTRL_1.3-XT:PE	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	230V AC for Circuit Breaker 1	+CIR-80Q1:X5_2	***Circuit Breaker cabinet***
8 mm	stripped	=	+CIR-80Q1:X5_1	***Circuit Breaker cabinet***
		=		

Cable name =UNIT_01++CONV+-279W1
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	++CT+CTRL_1.3-XT:1	CON Fans 1-5 in door	stripped	8 mm
Control cabinet 1	++CT+CTRL_1.3-XT:2	=	stripped	8 mm
Control cabinet 1	++CT+CTRL_1.3-XT:PE	=	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	CON Fans 1-5	+CON-279M1:L	***Converter cabinet***
8 mm	stripped	=	+CON-279M1:N	***Converter cabinet***
8 mm	stripped	=	+CON-279M1:PE	***Converter cabinet***

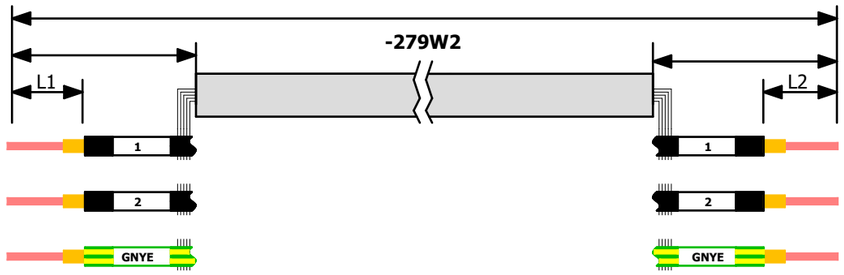
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Cable name =UNIT_01++CONV+-279W2
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	+CON-279M1:L	FAN 1 CONVERTER	stripped	8 mm
Converter cabinet	+CON-279M1:N	=	stripped	8 mm
Converter cabinet	+CON-279M1:PE	=	stripped	8 mm

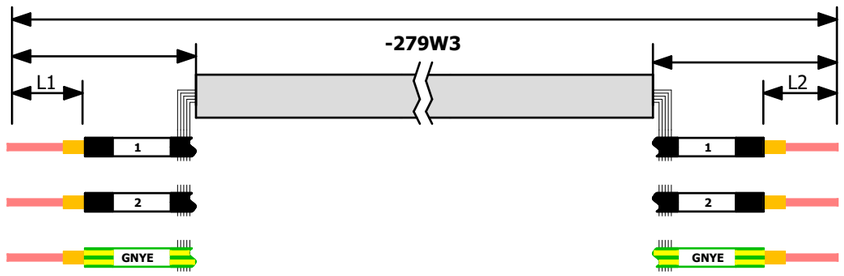


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 1 CONVERTER	+CON-279M2:1	*Converter cabinet*
8 mm	stripped	=	+CON-279M2:2	*Converter cabinet*
8 mm	stripped	=	+CON-279M2:PE	*Converter cabinet*

Cable name =UNIT_01++CONV+-279W3
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	+CON-279M2:1	FAN 2 CONVERTER	stripped	8 mm
Converter cabinet	+CON-279M2:2	=	stripped	8 mm
Converter cabinet	+CON-279M2:PE	=	stripped	8 mm

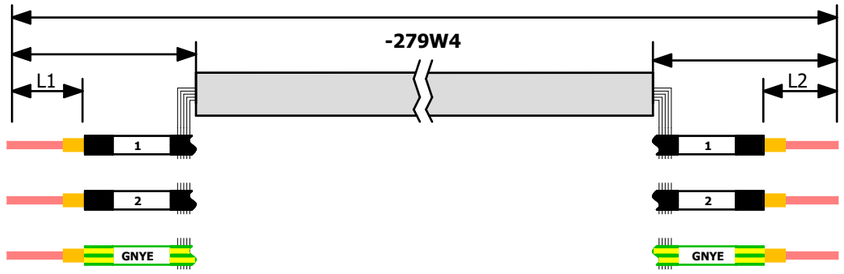


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 2 CONVERTER	+CON-279M3:1	*Converter cabinet*
8 mm	stripped	=	+CON-279M3:2	*Converter cabinet*
8 mm	stripped	=	+CON-279M3:PE	*Converter cabinet*

Cable name =UNIT_01++CONV+-279W4
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	+CON-279M3:1	FAN 3 CONVERTER	stripped	8 mm
Converter cabinet	+CON-279M3:2	=	stripped	8 mm
Converter cabinet	+CON-279M3:PE	=	stripped	8 mm

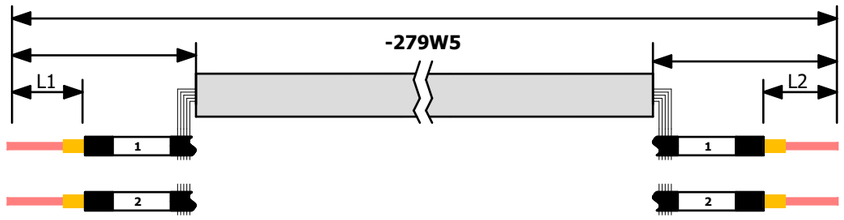


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 3 CONVERTER	+CON-279M4:1	*Converter cabinet*
8 mm	stripped	=	+CON-279M4:2	*Converter cabinet*
8 mm	stripped	=	+CON-279M4:PE	*Converter cabinet*

Cable name =UNIT_01++CONV+-279W5
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	+CON-279M4:1	FAN 4 CONVERTER	stripped	8 mm
Converter cabinet	+CON-279M4:2	=	stripped	8 mm



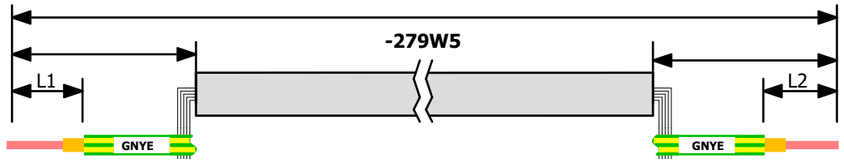
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 4 CONVERTER	+CON-279M5:1	*Converter cabinet*
8 mm	stripped	=	+CON-279M5:2	*Converter cabinet*

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Cable name =UNIT_01++CONV+-279W5
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

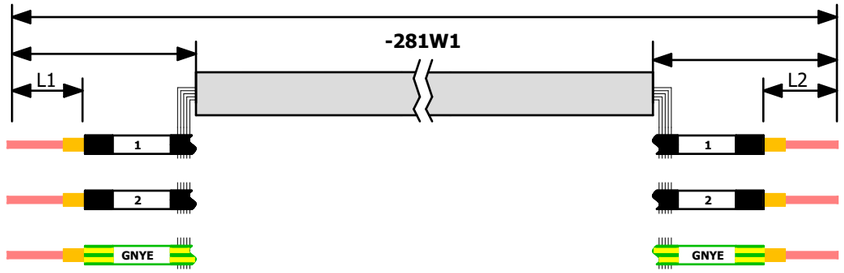


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	+CON-279M4:PE	FAN 4 CONVERTER	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 4 CONVERTER	+CON-279M5:PE	***Converter cabinet***

Cable name =UNIT_01++CONV+-281W1
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	++CT+CTRL_1.3-XT:3	CON Fans 1-5 in door	stripped	8 mm
Control cabinet 1	++CT+CTRL_1.3-XT:4	CIR Fans 1-3 in door	stripped	8 mm
Control cabinet 1	++CT+CTRL_1.3-XT:PE	=	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	CON Fans 1-5	+CIR-281M1:L	***Circuit Breaker cabinet***
8 mm	stripped	CIR Fans 1-3	+CIR-281M1:N	***Circuit Breaker cabinet***
8 mm	stripped	=	+CIR-281M1:PE	***Circuit Breaker cabinet***

Cable name =UNIT_01++CONV+-281W2
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091

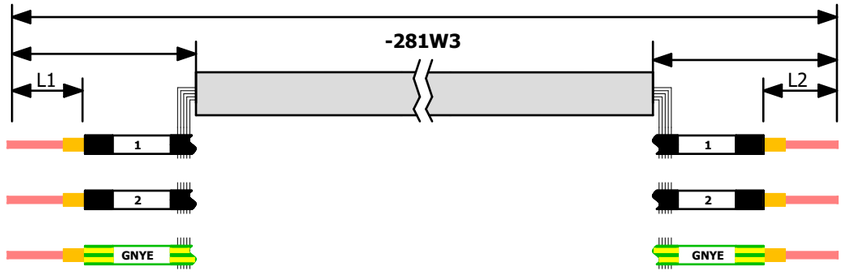


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-281M1:L	FAN 1 CIRCUIT BREAKER CABINET	stripped	8 mm
Circuit Breaker cabinet	+CIR-281M1:N	=	stripped	8 mm
Circuit Breaker cabinet	+CIR-281M1:PE	=	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 1 CIRCUIT BREAKER CABINET	+CIR-281M2:L	***Circuit Breaker cabinet***
8 mm	stripped	=	+CIR-281M2:N	***Circuit Breaker cabinet***
8 mm	stripped	=	+CIR-281M2:PE	***Circuit Breaker cabinet***

Cable name =UNIT_01++CONV+-281W3
Cable type JZ-500 3G1,5 mm²
Free conductors

Cable parts HELU.10091
Order number 10091



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-281M2:L	FAN 2 CIRCUIT BREAKER CABINET	stripped	8 mm
Circuit Breaker cabinet	+CIR-281M2:N	=	stripped	8 mm
Circuit Breaker cabinet	+CIR-281M2:PE	=	stripped	8 mm

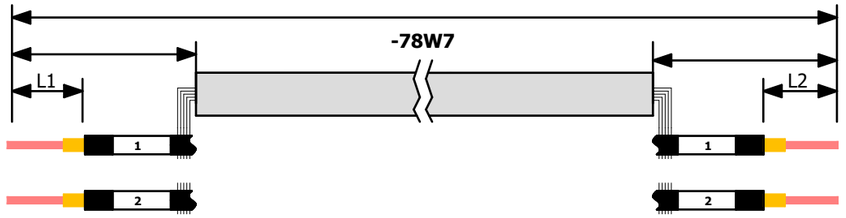
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped	FAN 2 CIRCUIT BREAKER CABINET	+CIR-281M3:1	***Circuit Breaker cabinet***
8 mm	stripped	=	+CIR-281M3:2	***Circuit Breaker cabinet***
8 mm	stripped	=	+CIR-281M3:PE	***Circuit Breaker cabinet***

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FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CONV+-78W7
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030

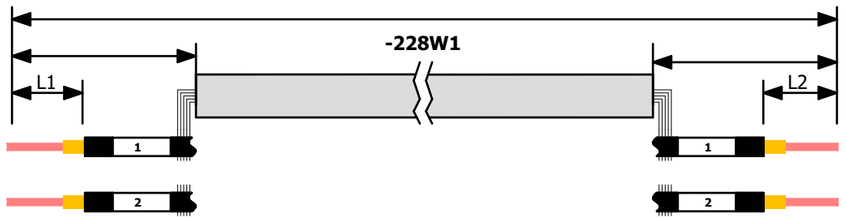


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:20			
AC and DC connection cabinet	+AC_DC-X3.43:19			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+AC_DC-78F1:13	AC and DC connection cabinet
			+AC_DC-78F1:14	AC and DC connection cabinet

Cable name =UNIT_01++CONV+-228W1
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:7	SURGE ARRESTER DC SUBSYSTEM 3_1		
AC and DC connection cabinet	+AC_DC-X3.43:8	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 3_1	+AC_DC-228F1:11	AC and DC connection cabinet
		=	+AC_DC-228F1:12	AC and DC connection cabinet

Cable name =UNIT_01++CONV+-228W2
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030

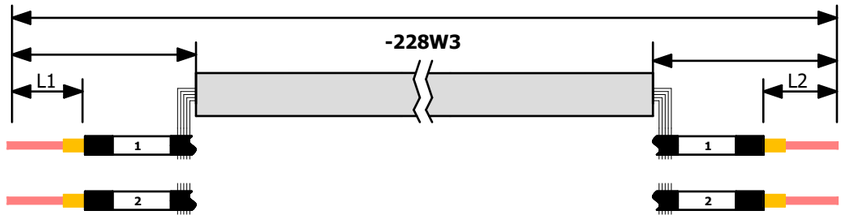


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:9	SURGE ARRESTER DC SUBSYSTEM 3_2		
AC and DC connection cabinet	+AC_DC-X3.43:10	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 3_2	+AC_DC-228F2:11	AC and DC connection cabinet
		=	+AC_DC-228F2:12	AC and DC connection cabinet

Cable name =UNIT_01++CONV+-228W3
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:11	SURGE ARRESTER DC SUBSYSTEM 3_3		
AC and DC connection cabinet	+AC_DC-X3.43:12	=		

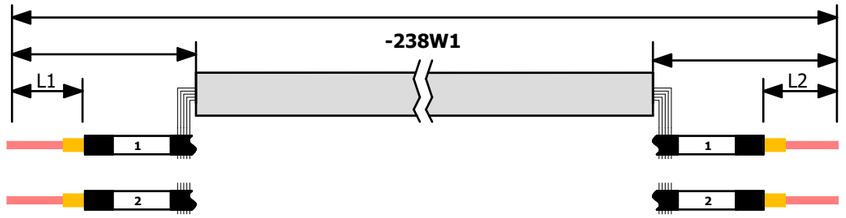
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 3_3	+AC_DC-228F3:11	AC and DC connection cabinet
		=	+AC_DC-228F3:12	AC and DC connection cabinet

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FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CONV+-238W1
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030

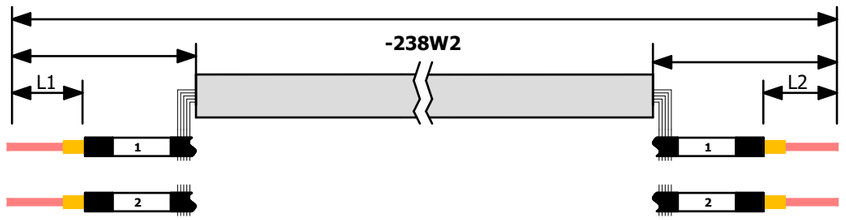


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:1	SURGE ARRESTER DC SUBSYSTEM 2_1		
AC and DC connection cabinet	+AC_DC-X3.43:2	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 2_1	+AC_DC-238F1:11	***AC and DC connection cabinet***
		=	+AC_DC-238F1:12	***AC and DC connection cabinet***

Cable name =UNIT_01++CONV+-238W2
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030

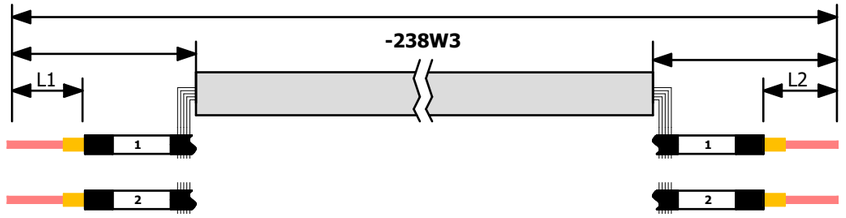


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:3	SURGE ARRESTER DC SUBSYSTEM 2_2		
AC and DC connection cabinet	+AC_DC-X3.43:4	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 2_2	+AC_DC-238F2:11	***AC and DC connection cabinet***
		=	+AC_DC-238F2:12	***AC and DC connection cabinet***

Cable name =UNIT_01++CONV+-238W3
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030

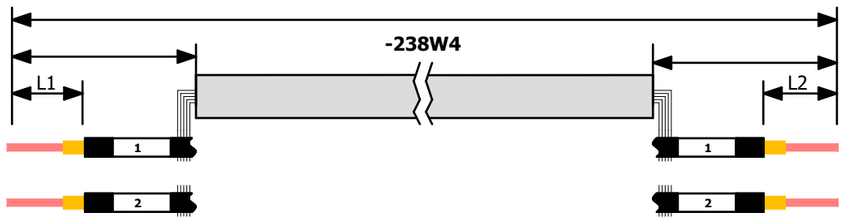


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:5	SURGE ARRESTER DC SUBSYSTEM 2_3		
AC and DC connection cabinet	+AC_DC-X3.43:6	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 2_3	+AC_DC-238F3:11	***AC and DC connection cabinet***
		=	+AC_DC-238F3:12	***AC and DC connection cabinet***

Cable name =UNIT_01++CONV+-238W4
Cable type OZ-500 2x0,75 mm²
Free conductors

Cable parts HELU.10030
Order number 10030

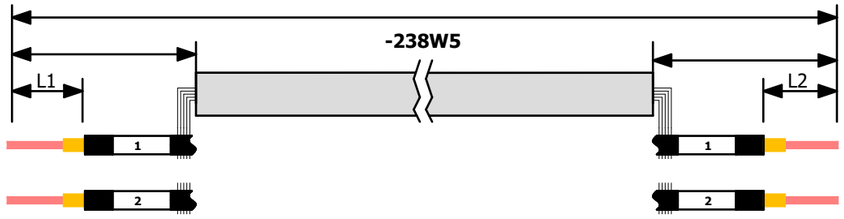


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:13	SURGE ARRESTER DC SUBSYSTEM 4_1		
AC and DC connection cabinet	+AC_DC-X3.43:14	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 4_1	+AC_DC-238F4:11	***AC and DC connection cabinet***
		=	+AC_DC-238F4:12	***AC and DC connection cabinet***

Cable name =UNIT_01++CONV+-238W5
Cable type OZ-500 2x0,75 mm²
Free conductors 2

Cable parts HELU.10030
Order number 10030

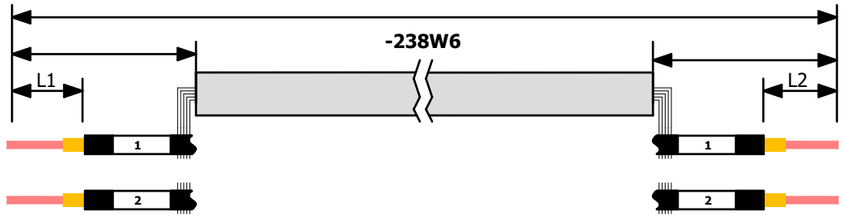


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:15	SURGE ARRESTER DC SUBSYSTEM 4_2		
AC and DC connection cabinet	+AC_DC-X3.43:16	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 4_2	+AC_DC-238F5:11	***AC and DC connection cabinet***
		=	+AC_DC-238F5:12	***AC and DC connection cabinet***

Cable name =UNIT_01++CONV+-238W6
Cable type OZ-500 2x0,75 mm²
Free conductors 2

Cable parts HELU.10030
Order number 10030

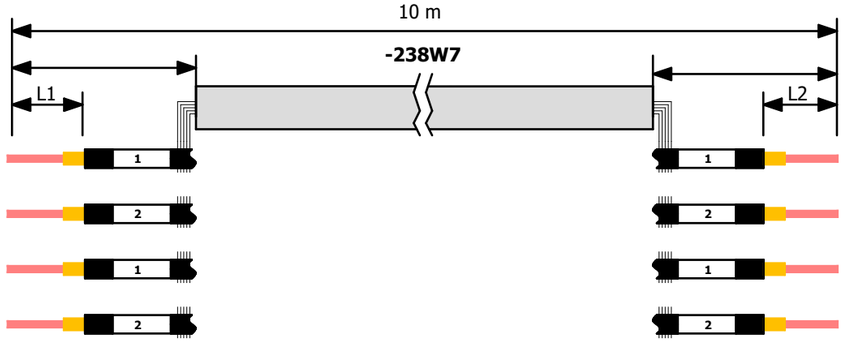


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:17	SURGE ARRESTER DC SUBSYSTEM 4_3		
AC and DC connection cabinet	+AC_DC-X3.43:18	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SURGE ARRESTER DC SUBSYSTEM 4_3	+AC_DC-238F6:11	***AC and DC connection cabinet***
		=	+AC_DC-238F6:12	***AC and DC connection cabinet***

Cable name =UNIT_01++CONV+-238W7
Cable type OZ-500 2x0,75 mm²
Free conductors 2

Cable parts HELU.10030
Order number 10030;10030

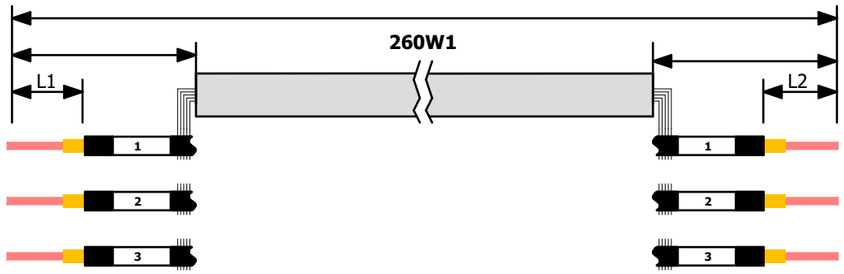


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-X3.43:1	SURGE ARRESTER DC SUBSYSTEM 2_1	stripped	7mm
AC and DC connection cabinet	+AC_DC-X3.43:20		stripped	7mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8mm	stripped	SURGE ARRESTER DC SUBSYSTEM 2_1	++CT+CTRL_1.3-X3:5	***Control cabinet 1***
8mm	stripped		++CT+CTRL_1.3-X3:6	***Control cabinet 1***

Cable name =UNIT_01++CONV+-260W1
Cable type OZ-500 4x0,75 mm²
Free conductors 3

Cable parts HELU.10034
Order number 10034



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	++CT+CTRL_1.3-X3:19	Smoke detector CON		
Control cabinet 1	++CT+CTRL_1.3-X3:20	=		
Control cabinet 1	++CT+CTRL_1.3-X3:21	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		Smoke detector CON	+CON-260B1:4	***Converter cabinet***
		=	+CON-260B1:2	***Converter cabinet***
		=	+CON-260B1:5	***Converter cabinet***

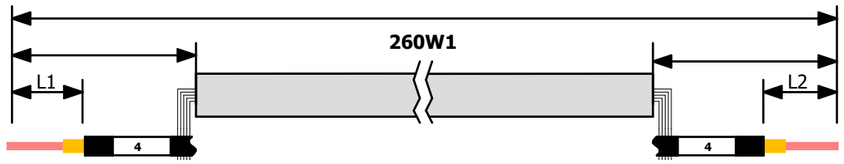
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FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CONV+-260W1
Cable type OZ-500 4x0,75 mm²
Free conductors

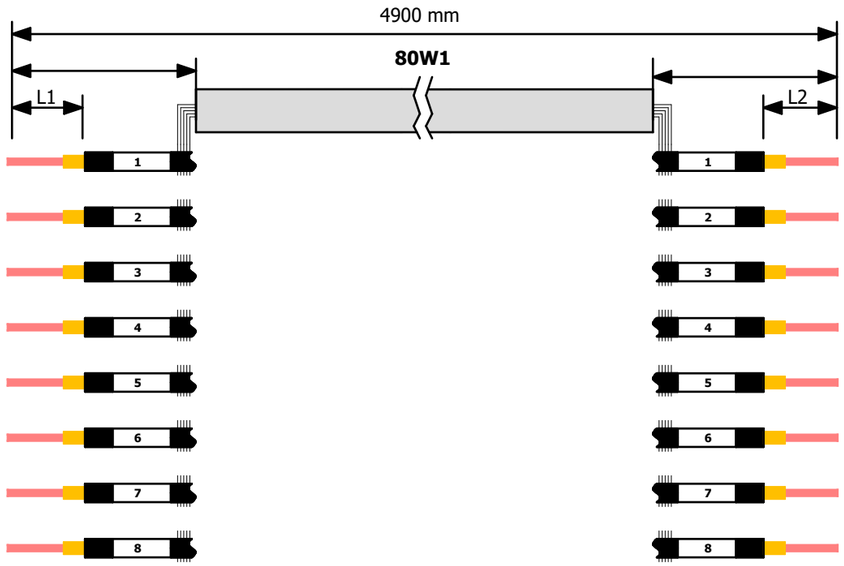
Cable parts HELU.10034
Order number 10034



Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Control cabinet 1	++CT+CTRL_1.3-X3:22	Smoke detector CON					Smoke detector CON	+CON-260B1:6	*Converter cabinet*

Cable name =UNIT_01++CONV+-80W1
Cable type OZ-500 8x0,75 mm²
Free conductors

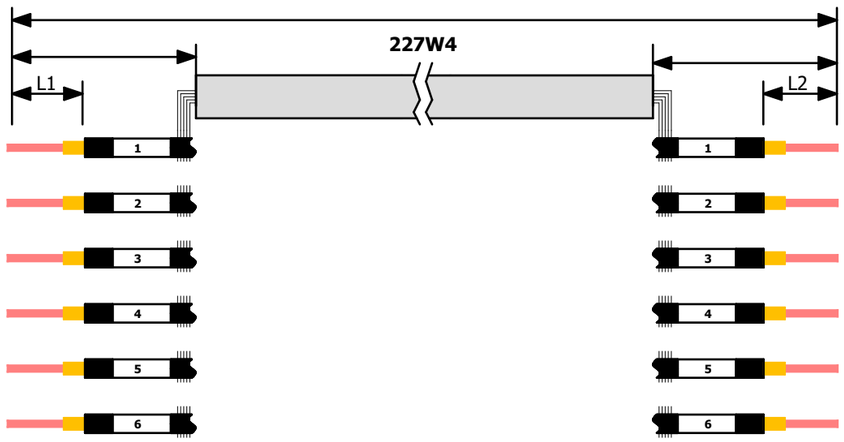
Cable parts HELU.10173
Order number 10173



Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Control cabinet 1	++CT+CTRL_1.3-X3:1	CB 1 Tripped GRID	stripped	8 mm	8 mm	stripped	CB 1 Tripped GRID	+CIR-80Q1:X7_13	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:2	CB 1 OFF GRID	stripped	8 mm	8 mm	stripped	CB 1 OFF GRID	+CIR-80Q1:X6_9	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:3	CB 1 ON GRID	stripped	8 mm	8 mm	stripped	CB 1 ON GRID	+CIR-80Q1:X6_11	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:31	CB 1 GRID +24V	stripped	8 mm	8 mm	stripped	CB 1 GRID	+CIR-80Q1:X6_12	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:32	=	stripped	8 mm	8 mm	stripped	=	+CIR-80Q1:X5_11	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:35	CB 2 ISLAND GRID +24V OPTIONAL	stripped	8 mm	8 mm	stripped	CB 2 ISLAND GRID	+CIR-80Q1:X6_7	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:36	CB 1 GRID	stripped	8 mm	8 mm	stripped	CB 1 GRID	+CIR-80Q1:X6_14	*Circuit Breaker cabinet*
Control cabinet 1	++CT+CTRL_1.3-X3:37	=	stripped	8 mm	8 mm	stripped	=	+CIR-80Q1:X5_12	*Circuit Breaker cabinet*

Cable name =UNIT_01++CONV+-227W4
Cable type OZ-500 18x1 mm²
Free conductors

Cable parts HELU.10174
Order number 10174



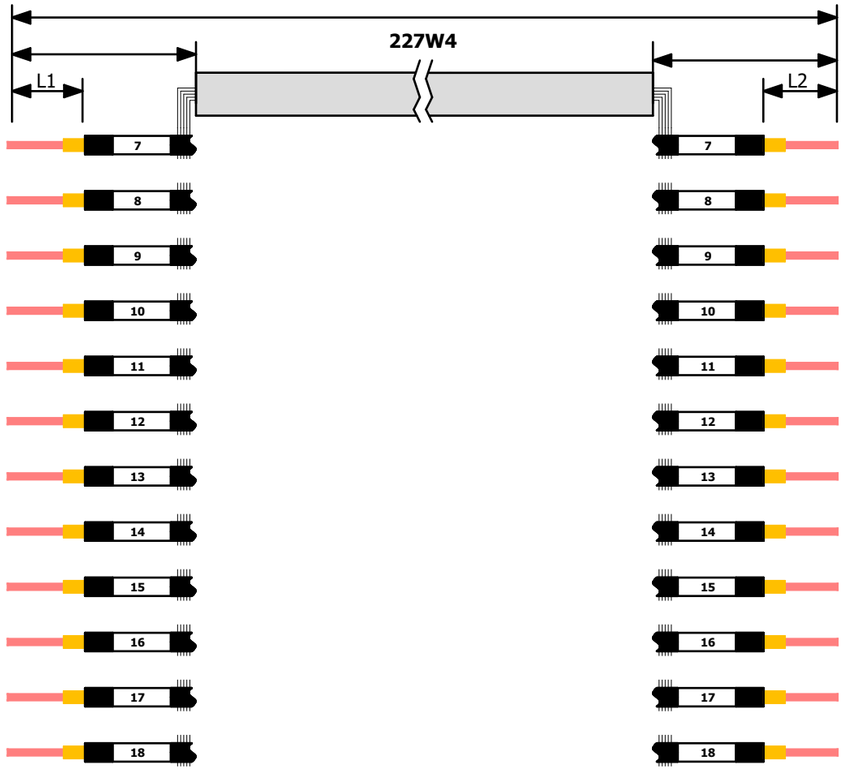
Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	+CIR-227U1-X3.1:1		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:1	*Control cabinet 1*
Circuit Breaker cabinet	+CIR-227U1-X3.1:2		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:4	*Control cabinet 1*
Circuit Breaker cabinet	+CIR-227U1-X3.1:3		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:7	*Control cabinet 1*
Circuit Breaker cabinet	+CIR-227U1-X3.1:4		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:3	*Control cabinet 1*
Circuit Breaker cabinet	+CIR-227U1-X3.1:5		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:6	*Control cabinet 1*
Circuit Breaker cabinet	+CIR-227U1-X3.1:6		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:9	*Control cabinet 1*

Editor	Freqcon_DG			Statron	FREQCON	CABEL LIST	20241105_V1.2	= UNIT_01 Converter Container 1	
Date	05.11.2024							& EMB Cable list	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CONV Converter	page: 10
Date								+	total: 498

FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CONV+-227W4
Cable type OZ-500 18x1 mm²
Free conductors

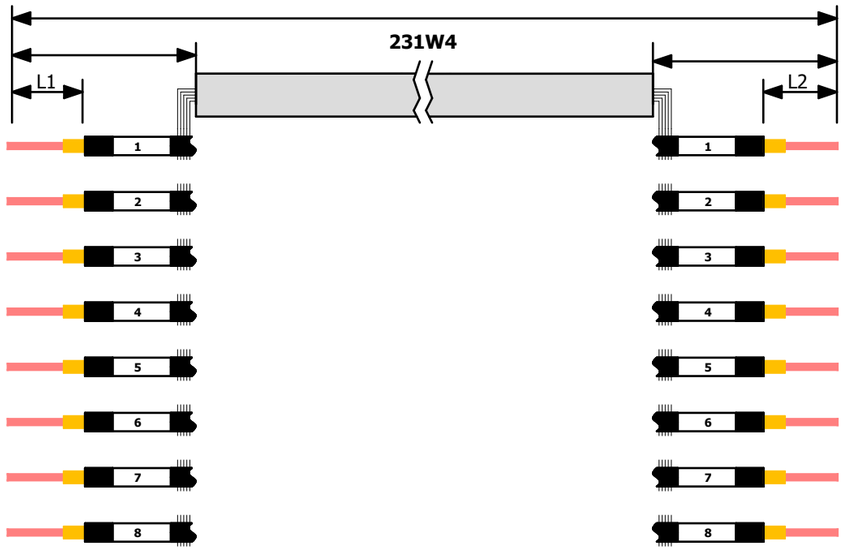
Cable parts HELU.10174
Order number 10174



Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	+CIR-227U1-X3.1:7		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-307K1:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:8		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-307K3:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:9		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-307K5:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:10		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-307K2:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:11		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-307K4:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:12		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-307K6:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:13		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.11:11	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:14		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.12:9	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:15		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.12:11	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:16		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.12:10	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-227U1-X3.1:17		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:2	***Control cabinet 1***
			stripped	8 mm	8 mm	stripped			

Cable name =UNIT_01++CONV+-231W4
Cable type OZ-500 18x1 mm²
Free conductors

Cable parts HELU.10174
Order number 10174



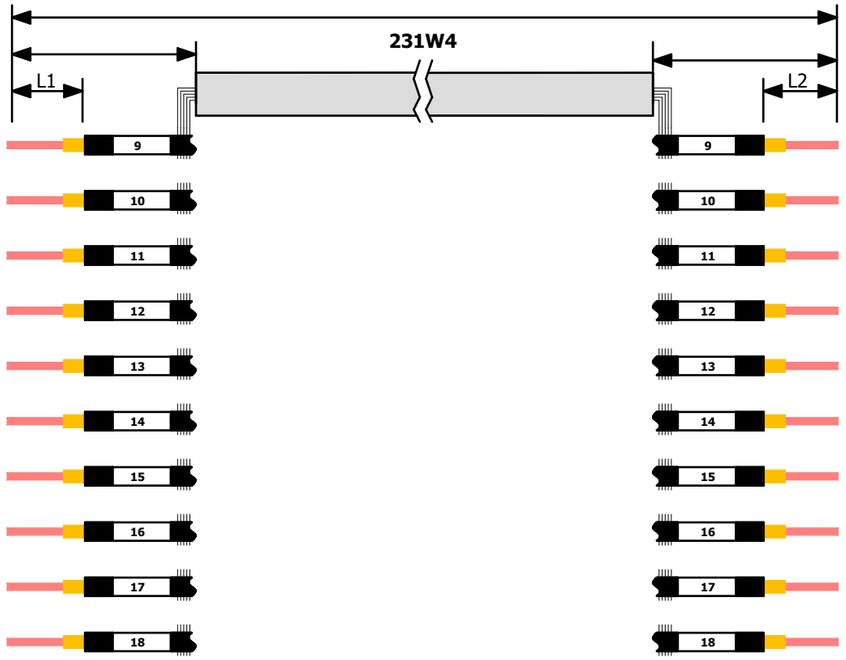
Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	+CIR-231U1-X3.1:1		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:2		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:4	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:3		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:7	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:4		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:3	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:5		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:6	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:6		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:9	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:7		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-306K1:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:8		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-306K3:A1	***Control cabinet 1***

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next page: 12

FRQ_Kabelplan_04_gro8_de_en

Cable name =UNIT_01++CONV+-231W4
Cable type OZ-500 18x1 mm²
Free conductors

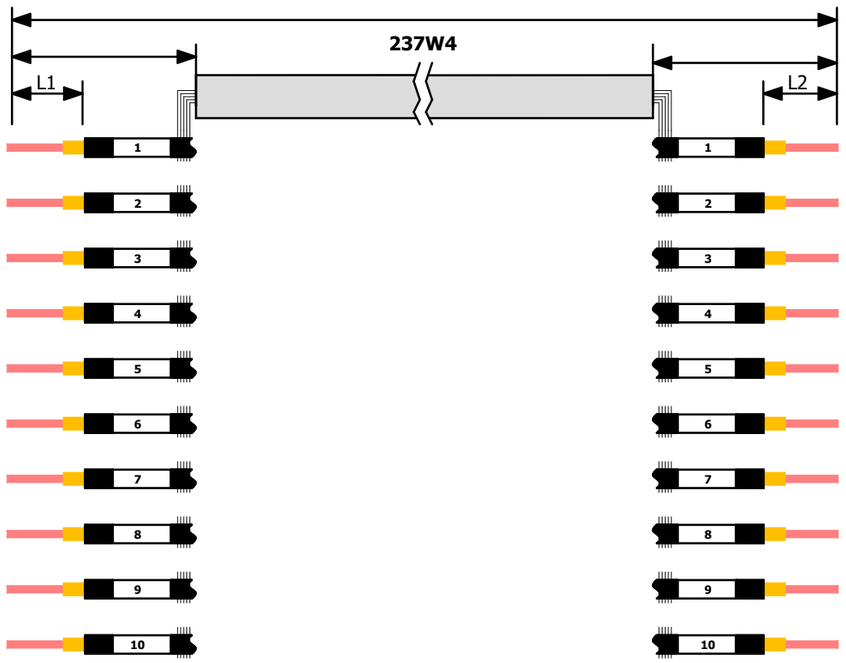
Cable parts HELU.10174
Order number 10174



Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	+CIR-231U1-X3.1:9		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-306K5:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:10		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-306K2:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:11		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-306K4:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:12		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-306K6:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:13		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.10:9	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:14		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.10:11	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:15		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.11:9	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:16		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-X3.10:10	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-231U1-X3.1:17		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.3-150X1:2	***Control cabinet 1***
			stripped	8 mm	8 mm	stripped			

Cable name =UNIT_01++CONV+-237W4
Cable type OZ-500 18x1 mm²
Free conductors

Cable parts HELU.10174
Order number 10174



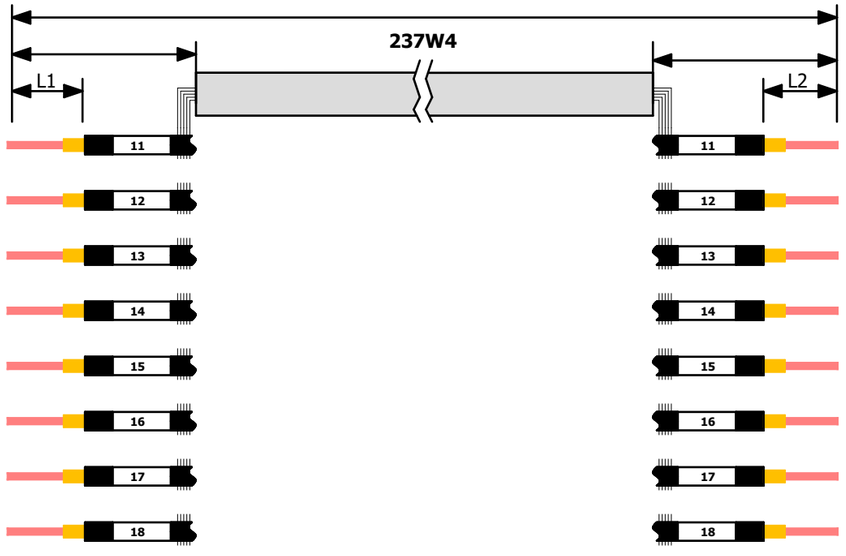
Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	+CIR-237U1-X3.1:1		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:11	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:2		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:14	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:3		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:17	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:4		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:13	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:5		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:16	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:6		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-350X1.21:19	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:7		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-308K1:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:8		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-308K3:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:9		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-308K5:A1	***Control cabinet 1***
Circuit Breaker cabinet	+CIR-237U1-X3.1:10		stripped	8 mm	8 mm	stripped		++CT+CTRL_1.4-308K2:A1	***Control cabinet 1***

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Cable name =UNIT_01++CONV+-237W4
Cable type OZ-500 18x1 mm²
Free conductors

Cable parts HELU.10174
Order number 10174

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-237U1-X3.1:11		stripped	8 mm
Circuit Breaker cabinet	+CIR-237U1-X3.1:12		stripped	8 mm
Circuit Breaker cabinet	+CIR-237U1-X3.1:13		stripped	8 mm
Circuit Breaker cabinet	+CIR-237U1-X3.1:14		stripped	8 mm
Circuit Breaker cabinet	+CIR-237U1-X3.1:15		stripped	8 mm
Circuit Breaker cabinet	+CIR-237U1-X3.1:16		stripped	8 mm
Circuit Breaker cabinet	+CIR-237U1-X3.1:17		stripped	8 mm
			stripped	8 mm

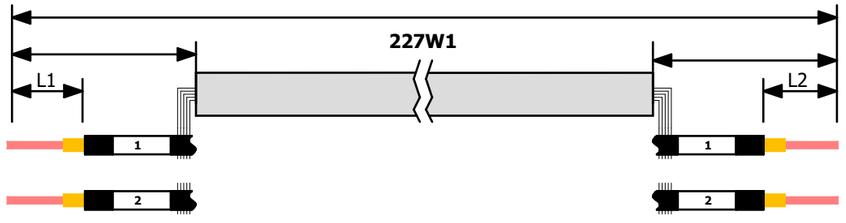


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	stripped		++CT+CTRL_1.4-308K4:A1	*Control cabinet 1*
8 mm	stripped		++CT+CTRL_1.4-308K6:A1	*Control cabinet 1*
8 mm	stripped		++CT+CTRL_1.3-X3.13:8	*Control cabinet 1*
8 mm	stripped		++CT+CTRL_1.3-X3.13:9	*Control cabinet 1*
8 mm	stripped		++CT+CTRL_1.3-X3.13:11	*Control cabinet 1*
8 mm	stripped		++CT+CTRL_1.3-X3.13:10	*Control cabinet 1*
8 mm	stripped		++CT+CTRL_1.4-350X1.21:12	*Control cabinet 1*
8 mm	stripped			

Cable name =UNIT_01++CONV+-227W1
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-227U1-F3:1			
Circuit Breaker cabinet	+CIR-227U1-F4:1			

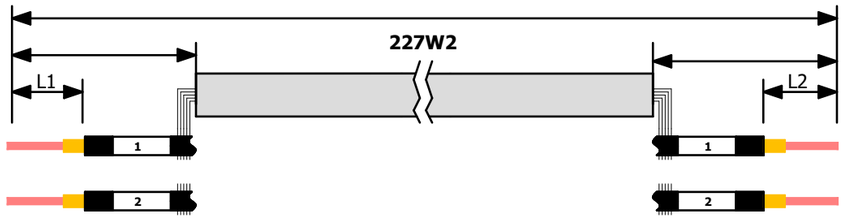


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-163U1:32	*Control cabinet 2*
			++CT+CTRL_2.1-162U1:32	*Control cabinet 2*

Cable name =UNIT_01++CONV+-227W2
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-227U1-F7:1			
Circuit Breaker cabinet	+CIR-227U1-F8:1			



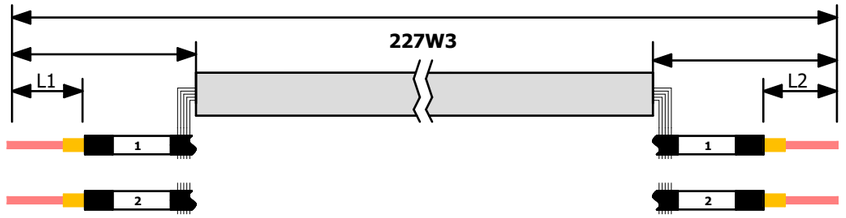
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-163U1:36	*Control cabinet 2*
			++CT+CTRL_2.1-162U1:36	*Control cabinet 2*

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Cable name =UNIT_01++CONV+-227W3
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

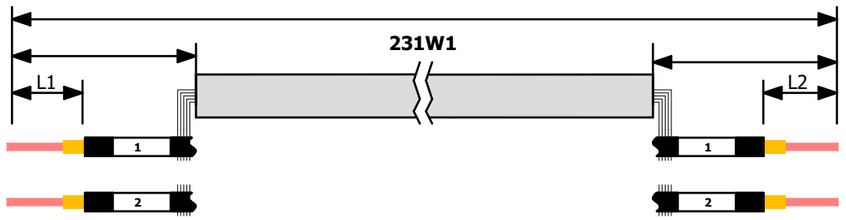


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-227U1-F11:1			
Circuit Breaker cabinet	+CIR-227U1-F12:1			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-163U1:40	*Control cabinet 2*
			++CT+CTRL_2.1-162U1:40	*Control cabinet 2*

Cable name =UNIT_01++CONV+-231W1
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

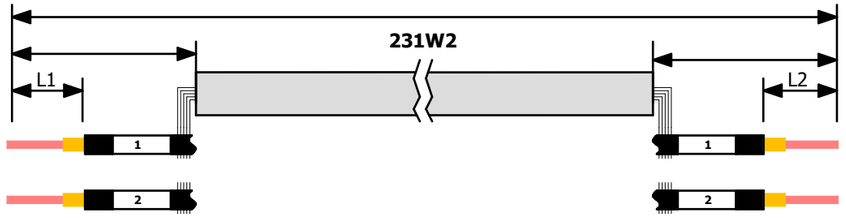


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-231U1-F3:1			
Circuit Breaker cabinet	+CIR-231U1-F4:1			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-163U1:19	*Control cabinet 2*
			++CT+CTRL_2.1-162U1:19	*Control cabinet 2*

Cable name =UNIT_01++CONV+-231W2
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

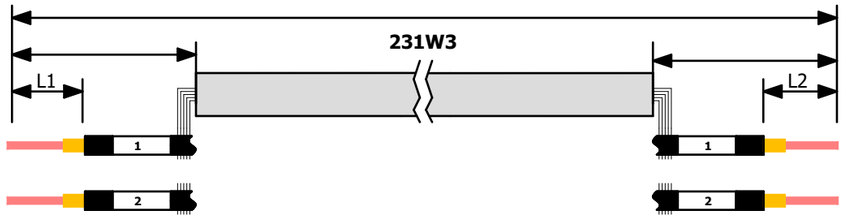


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-231U1-F7:1			
Circuit Breaker cabinet	+CIR-231U1-F8:1			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-163U1:23	*Control cabinet 2*
			++CT+CTRL_2.1-162U1:23	*Control cabinet 2*

Cable name =UNIT_01++CONV+-231W3
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-231U1-F11:1			
Circuit Breaker cabinet	+CIR-231U1-F12:1			

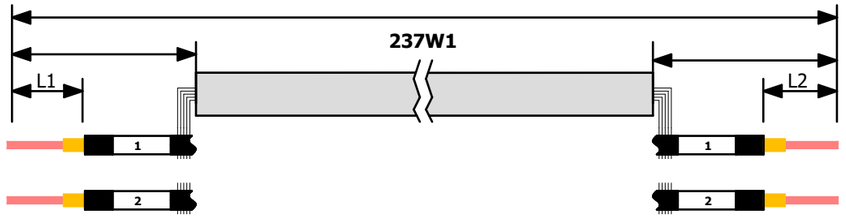
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-163U1:27	*Control cabinet 2*
			++CT+CTRL_2.1-162U1:27	*Control cabinet 2*

Editor	Freqcon_DG			Statron	FREQCON	CABEL LIST	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMB	Cable list	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++ CONV	Converter	page: 14
Date							10354_23A2007	+		total: 498

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Cable name =UNIT_01++CONV+-237W1
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

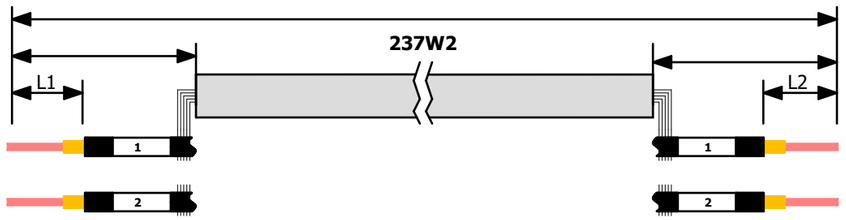


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-237U1-F3:1			
Circuit Breaker cabinet	+CIR-237U1-F4:1			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-164U1:19	*Control cabinet 2*
			++CT+CTRL_2.1-164U1:23	*Control cabinet 2*

Cable name =UNIT_01++CONV+-237W2
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

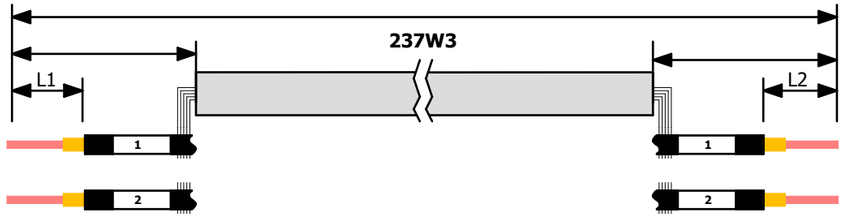


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-237U1-F7:1			
Circuit Breaker cabinet	+CIR-237U1-F8:1			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-164U1:27	*Control cabinet 2*
			++CT+CTRL_2.1-164U1:32	*Control cabinet 2*

Cable name =UNIT_01++CONV+-237W3
Cable type OZ-600 2x0,75 mm²
Free conductors

Cable parts
Order number

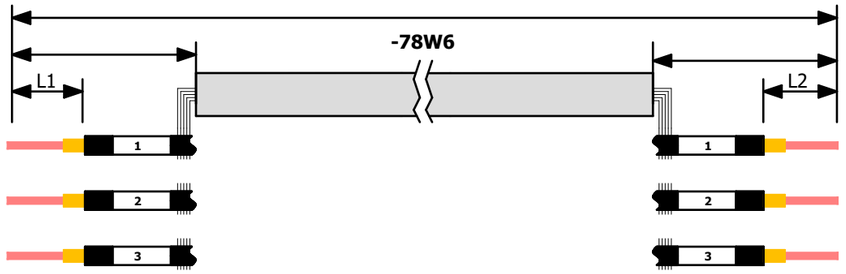


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	+CIR-237U1-F11:1			
Circuit Breaker cabinet	+CIR-237U1-F12:1			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_2.1-164U1:36	*Control cabinet 2*
			++CT+CTRL_2.1-164U1:40	*Control cabinet 2*

Cable name =UNIT_01++CONV+-78W6
Cable type OZ-600 3x2,5 mm²
Free conductors

Cable parts HELU.10691
Order number 10691



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
AC and DC connection cabinet	+AC_DC-78F3:2			
AC and DC connection cabinet	+AC_DC-78F3:4			
AC and DC connection cabinet	+AC_DC-78F3:6			

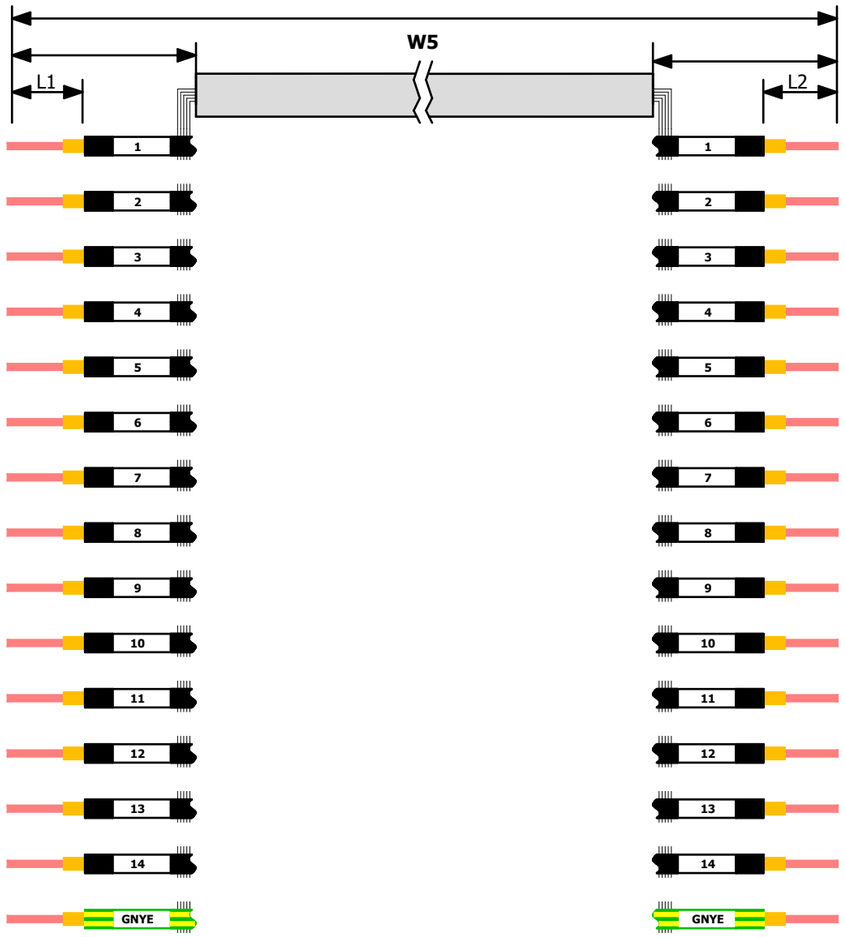
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			++CT+CTRL_1.4-85U1:L1	*Control cabinet 1*
			++CT+CTRL_1.4-85U1:L2	*Control cabinet 1*
			++CT+CTRL_1.4-85U1:L3	*Control cabinet 1*

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Cable name =UNIT_01++CONV+CIR-227U1-W5
Cable type JZ-500 15G0,75 mm²
Free conductors

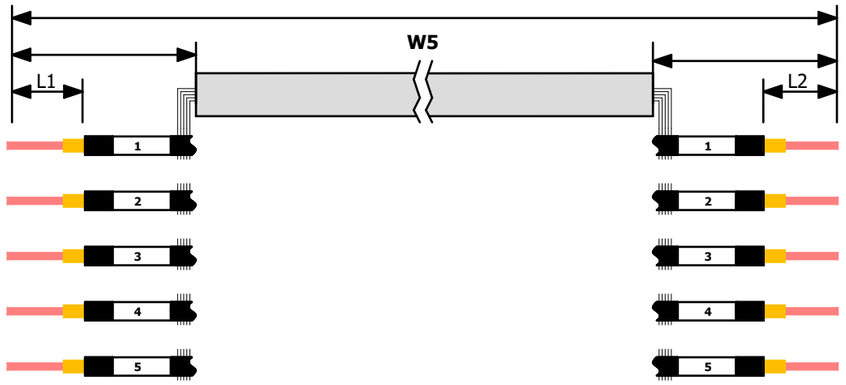
Cable parts HELU.10046
Order number 10046



Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	-227U1-X3.1:1							-227U1-X3.2:1	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:2							-227U1-X3.2:3	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:3							-227U1-X3.2:5	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:4							-227U1-X3.2:7	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:5							-227U1-X3.2:9	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:6							-227U1-X3.2:11	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:7							-227U1-X3.2:13	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:8							-227U1-X3.2:15	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:9							-227U1-X3.2:17	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:10							-227U1-X3.2:19	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:11							-227U1-X3.2:21	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:12							-227U1-X3.2:23	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:16							-227U1-X3.2:24	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:17							-227U1-X3.2:12	Circuit Breaker cabinet
Circuit Breaker cabinet	-227U1-X3.1:PE							-227U1-X3.2:PE	Circuit Breaker cabinet

Cable name =UNIT_01++CONV+CIR-231U1-W5
Cable type JZ-500 15G0,75 mm²
Free conductors

Cable parts HELU.10046
Order number 10046



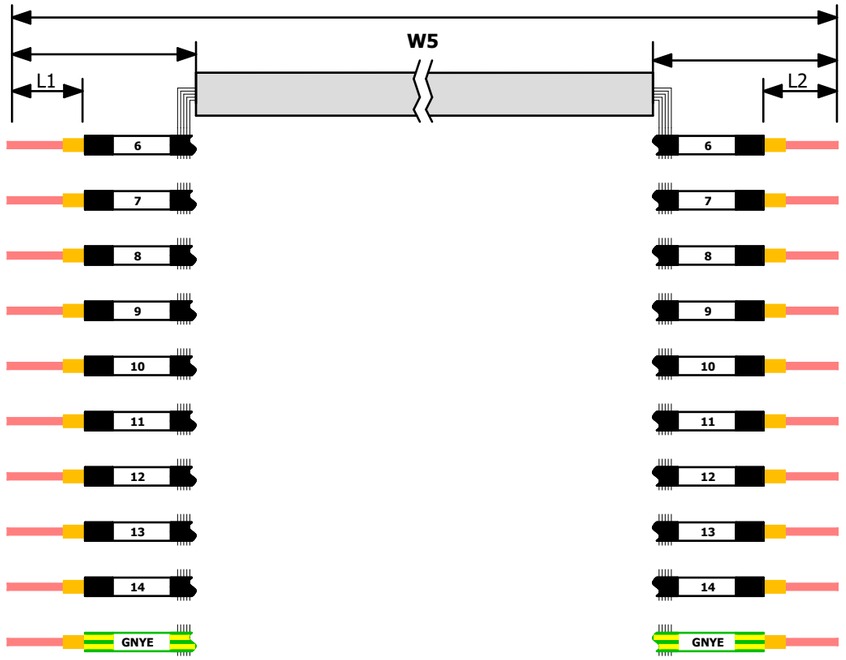
Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Circuit Breaker cabinet	-231U1-X3.1:1							-231U1-X3.2:1	Circuit Breaker cabinet
Circuit Breaker cabinet	-231U1-X3.1:2							-231U1-X3.2:3	Circuit Breaker cabinet
Circuit Breaker cabinet	-231U1-X3.1:3							-231U1-X3.2:5	Circuit Breaker cabinet
Circuit Breaker cabinet	-231U1-X3.1:4							-231U1-X3.2:7	Circuit Breaker cabinet
Circuit Breaker cabinet	-231U1-X3.1:5							-231U1-X3.2:9	Circuit Breaker cabinet

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Cable name =UNIT_01++CONV+CIR-231U1-W5
Cable type JZ-500 15G0,75 mm²
Free conductors

Cable parts HELU.10046
Order number 10046

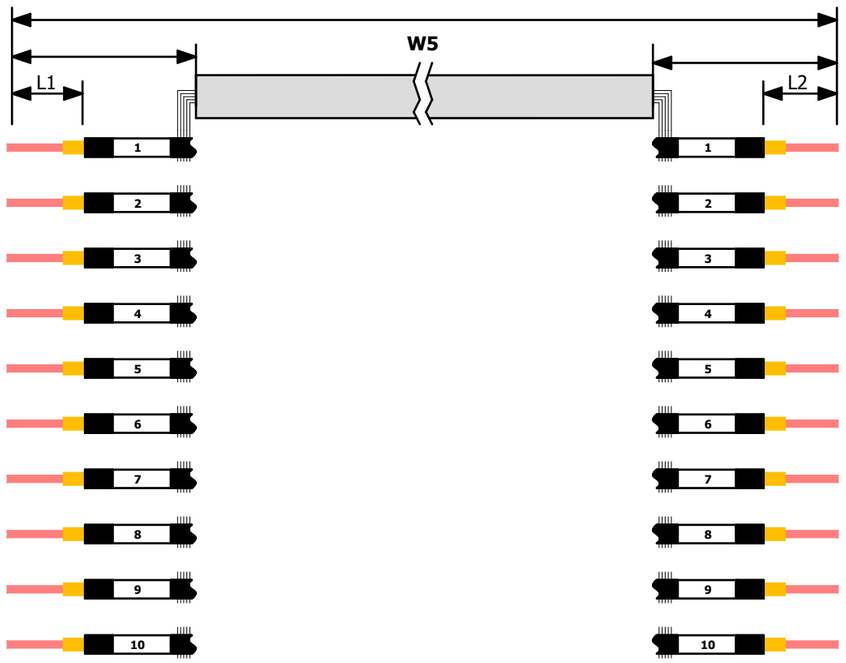


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	-231U1-X3.1:6			
Circuit Breaker cabinet	-231U1-X3.1:7			
Circuit Breaker cabinet	-231U1-X3.1:8			
Circuit Breaker cabinet	-231U1-X3.1:9			
Circuit Breaker cabinet	-231U1-X3.1:10			
Circuit Breaker cabinet	-231U1-X3.1:11			
Circuit Breaker cabinet	-231U1-X3.1:12			
Circuit Breaker cabinet	-231U1-X3.1:16			
Circuit Breaker cabinet	-231U1-X3.1:17			
Circuit Breaker cabinet	-231U1-X3.1:PE			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			-231U1-X3.2:11	*Circuit Breaker cabinet*
			-231U1-X3.2:13	*Circuit Breaker cabinet*
			-231U1-X3.2:15	*Circuit Breaker cabinet*
			-231U1-X3.2:17	*Circuit Breaker cabinet*
			-231U1-X3.2:19	*Circuit Breaker cabinet*
			-231U1-X3.2:21	*Circuit Breaker cabinet*
			-231U1-X3.2:23	*Circuit Breaker cabinet*
			-231U1-X3.2:24	*Circuit Breaker cabinet*
			-231U1-X3.2:12	*Circuit Breaker cabinet*
			-231U1-X3.2:PE	*Circuit Breaker cabinet*

Cable name =UNIT_01++CONV+CIR-237U1-W5
Cable type JZ-500 15G0,75 mm²
Free conductors

Cable parts HELU.10046
Order number 10046



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	-237U1-X3.1:1			
Circuit Breaker cabinet	-237U1-X3.1:2			
Circuit Breaker cabinet	-237U1-X3.1:3			
Circuit Breaker cabinet	-237U1-X3.1:4			
Circuit Breaker cabinet	-237U1-X3.1:5			
Circuit Breaker cabinet	-237U1-X3.1:6			
Circuit Breaker cabinet	-237U1-X3.1:7			
Circuit Breaker cabinet	-237U1-X3.1:8			
Circuit Breaker cabinet	-237U1-X3.1:9			
Circuit Breaker cabinet	-237U1-X3.1:10			

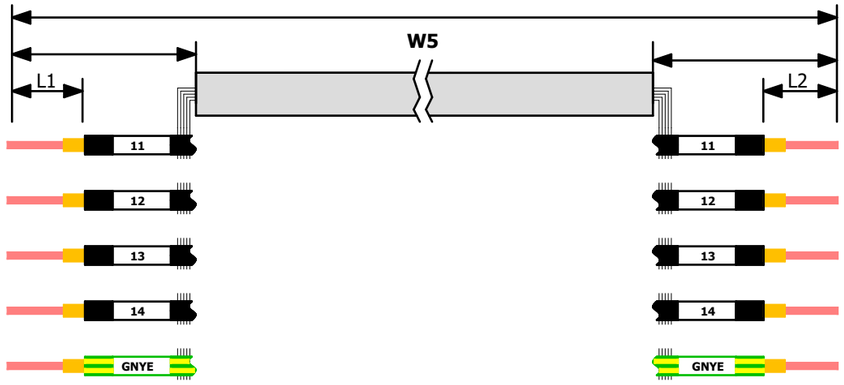
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			-237U1-X3.2:1	*Circuit Breaker cabinet*
			-237U1-X3.2:3	*Circuit Breaker cabinet*
			-237U1-X3.2:5	*Circuit Breaker cabinet*
			-237U1-X3.2:7	*Circuit Breaker cabinet*
			-237U1-X3.2:9	*Circuit Breaker cabinet*
			-237U1-X3.2:11	*Circuit Breaker cabinet*
			-237U1-X3.2:13	*Circuit Breaker cabinet*
			-237U1-X3.2:15	*Circuit Breaker cabinet*
			-237U1-X3.2:17	*Circuit Breaker cabinet*
			-237U1-X3.2:19	*Circuit Breaker cabinet*

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Cable name =UNIT_01++CONV+CIR-237U1-W5
Cable type JZ-500 15G0,75 mm²
Free conductors

Cable parts HELU.10046
Order number 10046



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Circuit Breaker cabinet	-237U1-X3.1:11			
Circuit Breaker cabinet	-237U1-X3.1:12			
Circuit Breaker cabinet	-237U1-X3.1:16			
Circuit Breaker cabinet	-237U1-X3.1:17			
Circuit Breaker cabinet	-237U1-X3.1:PE			

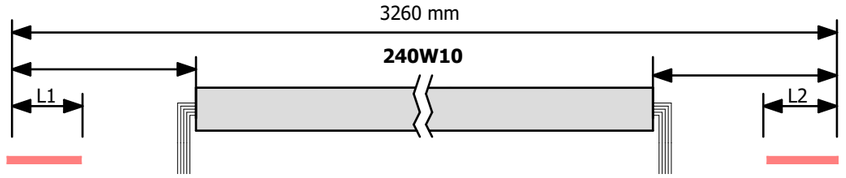
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			-237U1-X3.2:21	*Circuit Breaker cabinet*
			-237U1-X3.2:23	*Circuit Breaker cabinet*
			-237U1-X3.2:24	*Circuit Breaker cabinet*
			-237U1-X3.2:12	*Circuit Breaker cabinet*
			-237U1-X3.2:PE	*Circuit Breaker cabinet*

FRQ_Kabelplan_04_gro8_de_en

previous page: 2

next page: ++CT+/1

Cable name =UNIT_01++CT+-240W10
Cable type 2YY (ST) CY 2x2x0,64 mm²
Free conductors 2

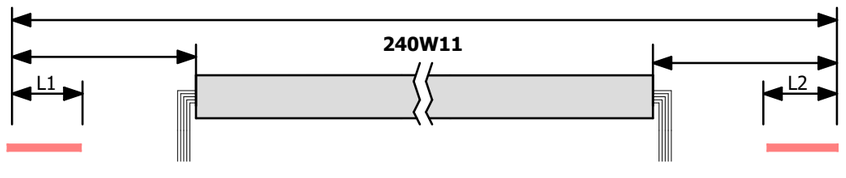


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.2-110U1:P1		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-240U1:P1	*Control cabinet 2*

Cable name =UNIT_01++CT+-240W11
Cable type 2YY (ST) CY 2x2x0,64 mm²
Free conductors 2

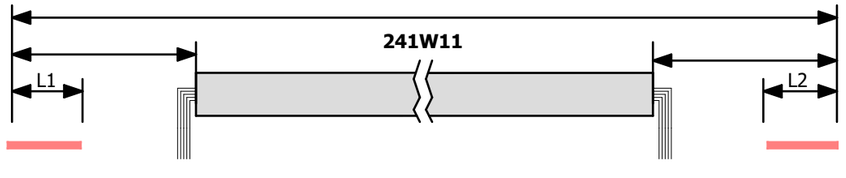


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-240U1:P2		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-241U1:P1	*Control cabinet 2*

Cable name =UNIT_01++CT+-241W11
Cable type 2YY (ST) CY 2x2x0,64 mm²
Free conductors 2

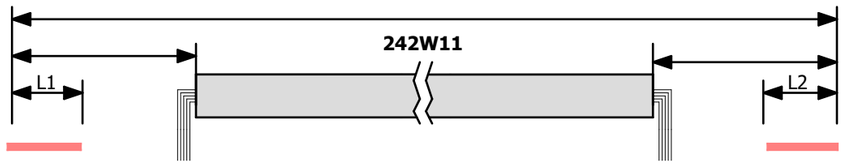


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-241U1:P2		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-242U1:P1	*Control cabinet 2*

Cable name =UNIT_01++CT+-242W11
Cable type 2YY (ST) CY 2x2x0,64 mm²
Free conductors 2

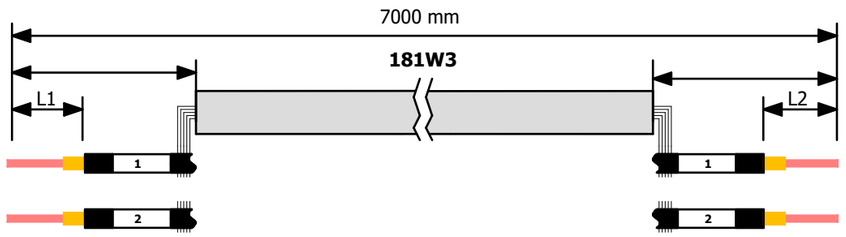


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-242U1:P2		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-243U1:P1	*Control cabinet 2*

Cable name =UNIT_01++CT+-181W3
Cable type F-CY-OZ (LiY-CY) 7x0,75 mm²
Free conductors 2



Cable parts HELU.16563
Order number 16563

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-X3:23	PRESSURE SWITCH	stripped	8 mm
Control cabinet 1	+CTRL_1.3-X3:24	=	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Flat connector	PRESSURE SWITCH	++FAN-52G1-181X3:1	
	Flat connector	=	++FAN-52G1-181X3:3	

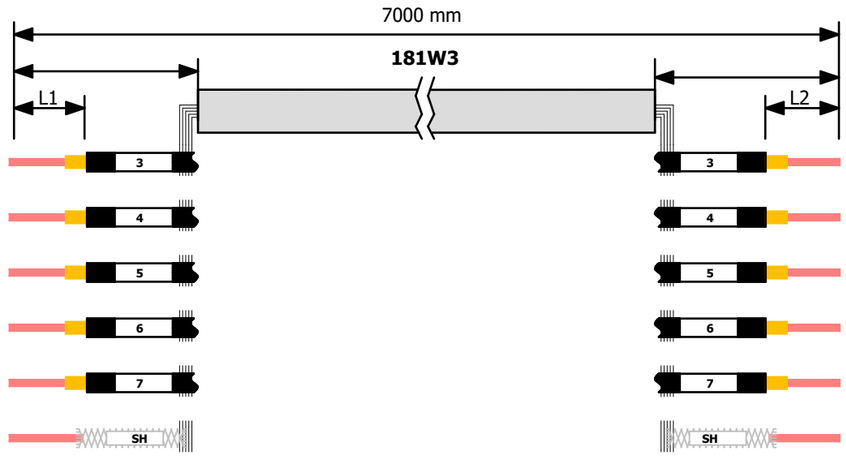
previous page: ++CONV+CIR/3
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FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CT+-181W3
Cable type F-CY-OZ (LiY-CY) 7x0,75 mm²
Free conductors 2

Cable parts HELU.16563
Order number 16563

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-X3:25	PRESSURE SWITCH	stripped	8 mm
Control cabinet 1	+CTRL_1.3-X5:23	COOLING WATER TEMPERATURE	End splice	8 mm
Control cabinet 1	+CTRL_1.3-X5:24	=	End splice	8 mm

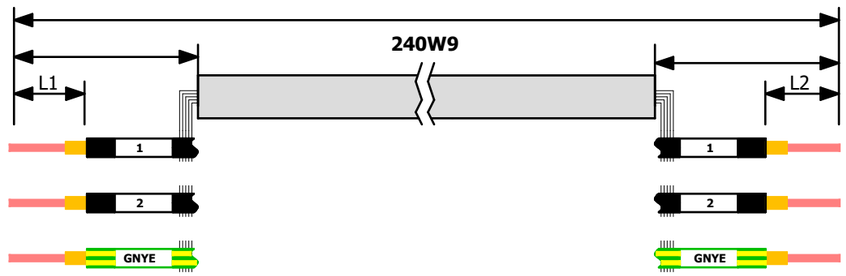


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Flat connector	PRESSURE SWITCH	++FAN-52G1-181X3:2	
8 mm	stripped	COOLING WATER TEMPERATURE	++FAN-52G1-181X3:4	
8 mm	stripped	=	++FAN-52G1-181X3:5	

Cable name =UNIT_01++CT+-240W9
Cable type JZ-500 3G0,75 mm²
Free conductors 3

Cable parts HELU.10031
Order number 10031

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-XDC1:1	FUSE 24V DC CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC1:4	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC1:PE	=	stripped	8 mm

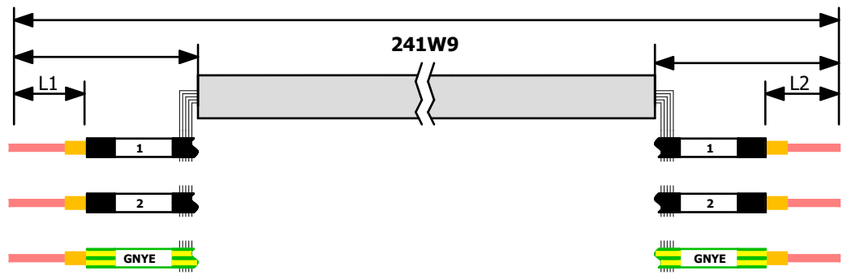


L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector	FUSE 24V DC CONTROL VOLTAGE	+CTRL_2.1-240U1:1	***Control cabinet 2***
	Connector	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_2.1-240U1:3	***Control cabinet 2***
	Connector	=	+CTRL_2.1-240U1:2	***Control cabinet 2***

Cable name =UNIT_01++CT+-241W9
Cable type JZ-500 3G0,75 mm²
Free conductors 3

Cable parts HELU.10031
Order number 10031

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-XDC2:2	BSU, SPARE CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC2:4	=	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC1:PE	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	stripped	8 mm



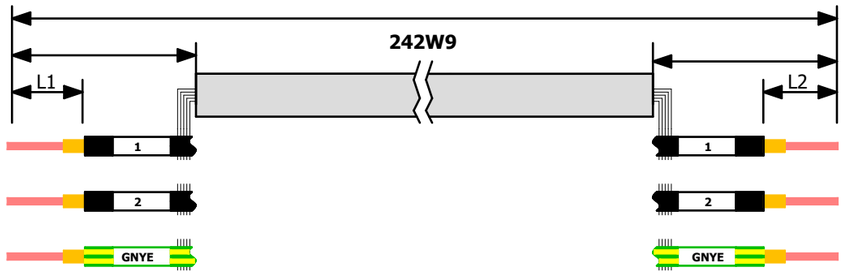
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector	BSU, SPARE CONTROL VOLTAGE	+CTRL_2.1-241U1:1	***Control cabinet 2***
	Connector	=	+CTRL_2.1-241U1:3	***Control cabinet 2***
	Connector	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_2.1-241U1:2	***Control cabinet 2***

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Cable name =UNIT_01++CT+-242W9
Cable type JZ-500 3G0,75 mm²
Free conductors 0

Cable parts HELU.10031
Order number 10031

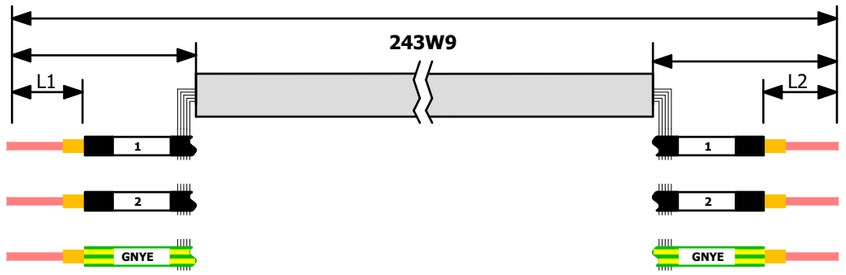


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-XDC2:1	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC2:3	BSU, SPARE CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC1:PE	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_2.1-242U1:1	*Control cabinet 2*
	Connector	BSU, SPARE CONTROL VOLTAGE	+CTRL_2.1-242U1:3	*Control cabinet 2*
	Connector	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_2.1-242U1:2	*Control cabinet 2*

Cable name =UNIT_01++CT+-243W9
Cable type JZ-500 3G0,75 mm²
Free conductors 0

Cable parts HELU.10031
Order number 10031

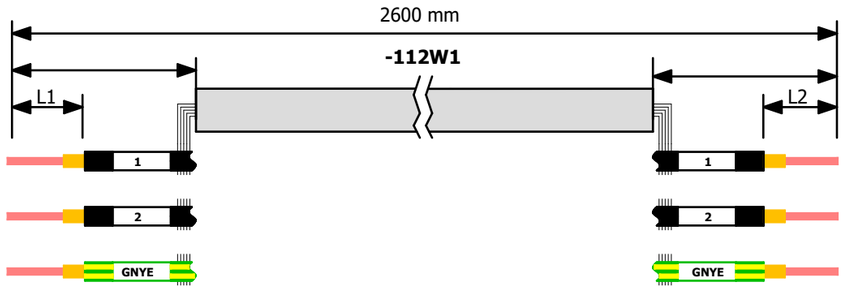


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-XDC2:1	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC2:3	BSU, SPARE CONTROL VOLTAGE	stripped	8 mm
Control cabinet 1	+CTRL_1.3-XDC1:PE	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_2.1-243U1:1	*Control cabinet 2*
	Connector	BSU, SPARE CONTROL VOLTAGE	+CTRL_2.1-243U1:3	*Control cabinet 2*
	Connector	Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_2.1-243U1:2	*Control cabinet 2*

Cable name =UNIT_01++CT+-112W1
Cable type JZ-500 3G0,75 mm²
Free conductors 0

Cable parts HELU.10031
Order number 10031

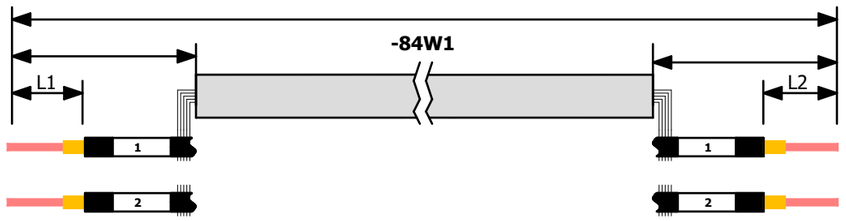


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-XDC2:2	BSU, SPARE CONTROL VOLTAGE		
Control cabinet 1	+CTRL_1.3-XDC2:4	=		
Control cabinet 1	+CTRL_1.3-XDC1:PE	Main PLC, SPS, 24V contacts CONTROL VOLTAGE		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		BSU, SPARE CONTROL VOLTAGE	+CTRL_1.1-112A1:L+	*Control cabinet 1*
		=	+CTRL_1.1-112A1:M	*Control cabinet 1*
		Main PLC, SPS, 24V contacts CONTROL VOLTAGE	+CTRL_1.1-112A1:PE	*Control cabinet 1*

Cable name =UNIT_01++CT+-84W1
Cable type JZ-500 7G6 mm²
Free conductors 1

Cable parts HELU.10150
Order number 10150



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.1-84Q1:2		stripped	8 mm
Control cabinet 1	+CTRL_1.1-84Q1:4		stripped	8 mm

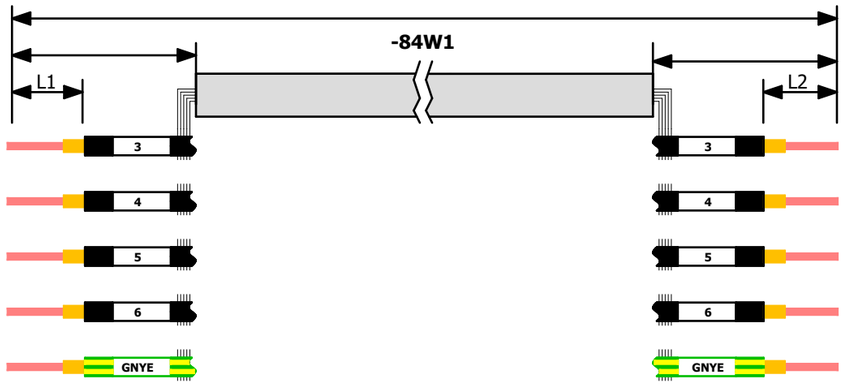
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	End splice		+CTRL_1.3-84F1:L1'	*Control cabinet 1*
8 mm	End splice		+CTRL_1.3-84F1:L2'	*Control cabinet 1*

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FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CT+-84W1
Cable type JZ-500 7G6 mm²
Free conductors

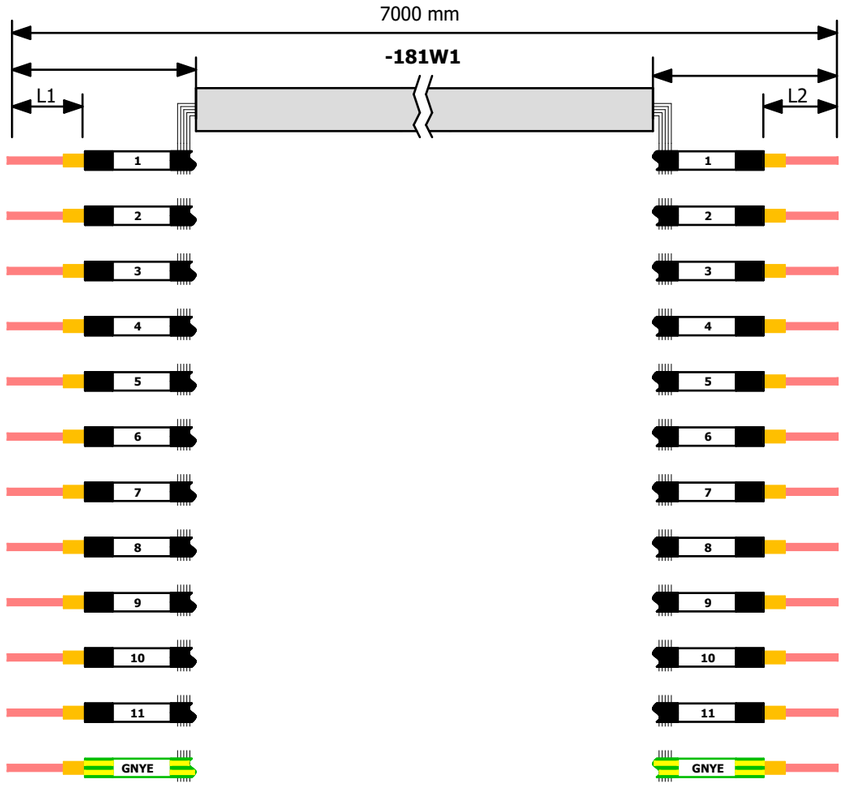
Cable parts HELU.10150
Order number 10150



Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Control cabinet 1	+CTRL_1.1-84Q1:6		stripped	8 mm	8 mm	End splice		+CTRL_1.3-84F1:L3'	Control cabinet 1
Control cabinet 1	+CTRL_1.1-84Q1:1		stripped	8 mm	8 mm	End splice		+CTRL_1.3-183F1:1	Control cabinet 1
Control cabinet 1	+CTRL_1.1-84Q1:3		stripped	8 mm	8 mm	End splice		+CTRL_1.3-183F2:1	Control cabinet 1
Control cabinet 1	+CTRL_1.1-84Q1:5		stripped	8 mm	8 mm	End splice		+CTRL_1.3-185F1:1	Control cabinet 1

Cable name =UNIT_01++CT+-181W1
Cable type JZ-600 12G1,5 mm²
Free conductors

Cable parts HELU.10670
Order number 10670



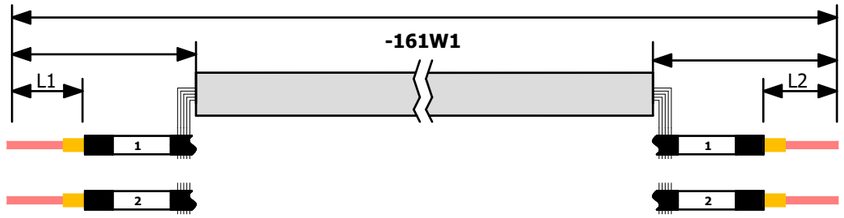
Mounting location:	Source	Function text source	wire end handling	L1 [mm]	L2 [mm]	wire end handling	Function text target	Target	Mounting location:
Control cabinet 1	+CTRL_1.3-X1:1	PUMP	stripped	8 mm	8 mm	stripped	PUMP	++FAN-52G1-181X1:1:1	
Control cabinet 1	+CTRL_1.3-X1:2	=	stripped	8 mm	8 mm	stripped	=	++FAN-52G1-181X1:2:1	
Control cabinet 1	+CTRL_1.3-X1:3	=	stripped	8 mm	8 mm	stripped	=	++FAN-52G1-181X1:3:1	
Control cabinet 1	+CTRL_1.3-X1:4	FUSE FOR PUMP	stripped	8 mm	8 mm	stripped	FUSE FOR PUMP	++FAN-52G1-181X1:4:1	
Control cabinet 1	+CTRL_1.3-X1:5	HEATER	stripped	8 mm	8 mm	stripped	HEATER	++FAN-52G1-181X1:5:1	
Control cabinet 1	+CTRL_1.3-X1:6	=	stripped	8 mm	8 mm	stripped	=	++FAN-52G1-181X1:6:1	
Control cabinet 1	+CTRL_1.3-X1:7	=	stripped	8 mm	8 mm	stripped	=	++FAN-52G1-181X1:7:1	
Control cabinet 1	+CTRL_1.3-X1:8	FAN 1 HEAT EXCHANGER	stripped	8 mm	8 mm	End splice	FAN 1 HEAT EXCHANGER	++FAN-52G1-181X1:8:1	
Control cabinet 1	+CTRL_1.3-X1:9	=	stripped	8 mm	8 mm	End splice	=	++FAN-52G1-181X1:9:1	
Control cabinet 1	+CTRL_1.3-X1:10	=	stripped	8 mm	8 mm	End splice	=	++FAN-52G1-181X1:10:1	
Control cabinet 1	+CTRL_1.3-X1:PE	PUMP	stripped	8 mm	8 mm	stripped	PUMP	++FAN-52G1-181X1:PE:1	

Editor	Freqcon_DG			Statron	FREQCON	CABEL LIST	20241105_V1.2	= UNIT_01 Converter Container 1	
Date	05.11.2024							& EMB Cable list	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets	page: 4
Date								+	total: 498

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Cable name =UNIT_01++CT+-161W1
Cable type OZ-500 2x0,75 mm²
Free conductors 0

Cable parts HELU.10030
Order number 10030

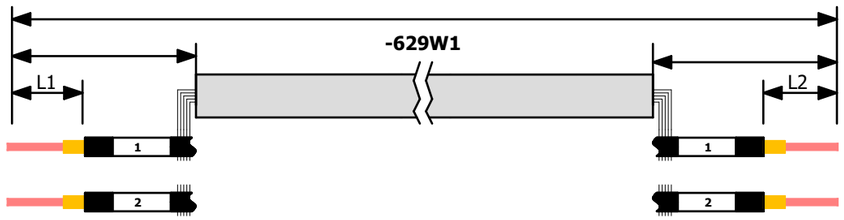


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-160U1:+			
Control cabinet 2	+CTRL_2.1-160U1:-			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_2.1-161U1:+	*Control cabinet 2*
			+CTRL_2.1-161U1:-	*Control cabinet 2*

Cable name =UNIT_01++CT+-629W1
Cable type OZ-500 2x0,75 mm²
Free conductors 2

Cable parts HELU.10030
Order number 10030



Mounting location:	Source	Function text source	wire end handling	L1 [mm]

L2 [mm]	wire end handling	Function text target	Target	Mounting location:

Cable name =UNIT_01++CT+-195W1
Cable type OZ-500 4x0,75 mm²
Free conductors 0

Cable parts HELU.10034
Order number 10034

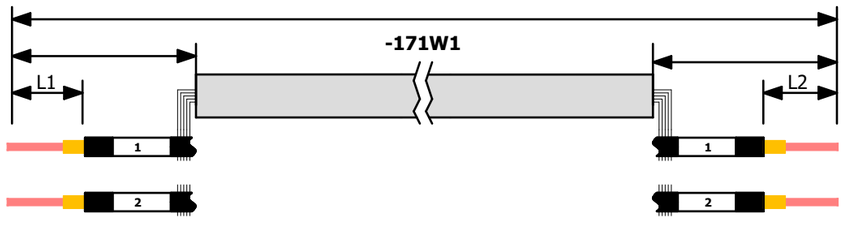


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.1-84Q1:13	SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS		
Control cabinet 1	+CTRL_1.1-84Q1:23			
Control cabinet 1	+CTRL_1.1-84Q1:14	SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS		
Control cabinet 1	+CTRL_1.1-84Q1:24			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
		SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS	+CTRL_1.3-195K3:T1	*Control cabinet 1*
			+CTRL_1.3-195K3:T2	*Control cabinet 1*
		SHUTDOWN CIRCUIT BREAKERS / DC CONTACTORS	+CTRL_1.3-X3:41	*Control cabinet 1*
			+CTRL_1.3-X3:43	*Control cabinet 1*

Cable name =UNIT_01++CT+-171W1
Cable type OZ-600 2x1,5 mm²
Free conductors 2

Cable parts HELU.10656
Order number 10656



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.4-171F1:1			
Control cabinet 1	+CTRL_1.4-171F1:3			

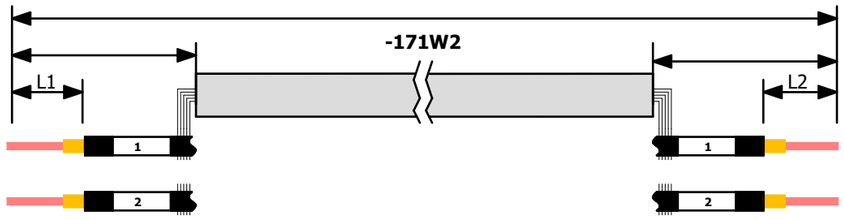
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.4-85U1:DC+	*Control cabinet 1*
			+CTRL_1.4-85U1:DC-	*Control cabinet 1*

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FRQ_Kabelplan_04_groß_de_en

Cable name =UNIT_01++CT+-171W2
Cable type OZ-600 2x1,5 mm²
Free conductors 2

Cable parts HELU.10656
Order number 10656

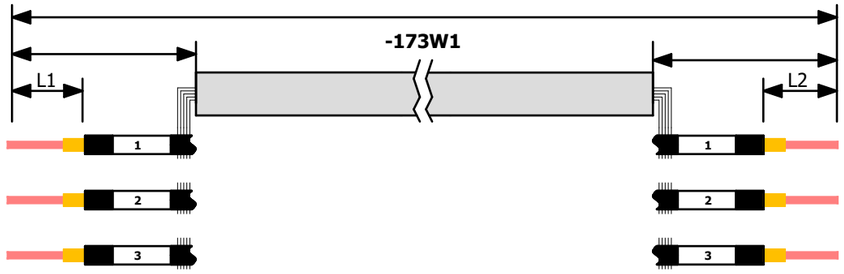


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.4-171F1:2			
Control cabinet 1	+CTRL_1.4-171F1:4			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.4-171K1:A1	*Control cabinet 1*
			+CTRL_1.4-171K2:A1	*Control cabinet 1*

Cable name =UNIT_01++CT+-173W1
Cable type OZ-600 3x2,5 mm²
Free conductors 3

Cable parts HELU.10691
Order number 10691

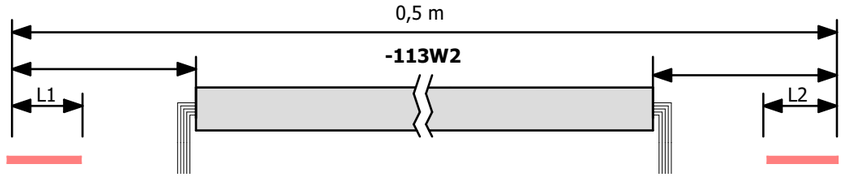


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-UDC+			
Converter cabinet	++CONV+CON-UDC-			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.4-173F2:2	*Control cabinet 1*
			+CTRL_1.4-173F2:4	*Control cabinet 1*

Cable name =UNIT_01++CT+-113W2
Cable type Patch cable Cat.6 4x2x0,25 mm²
Free conductors 8

Cable parts REI.PATCH-C6 05 GN
Order number PATCH-C6 05 GN

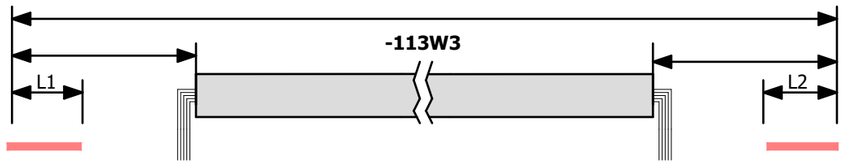


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-113T1:7			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.3-113U1:OUT	*Control cabinet 1*

Cable name =UNIT_01++CT+-113W3
Cable type Patch cable Cat.6 4x2x0,25 mm²
Free conductors 8

Cable parts
Order number



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-113U1:IN			

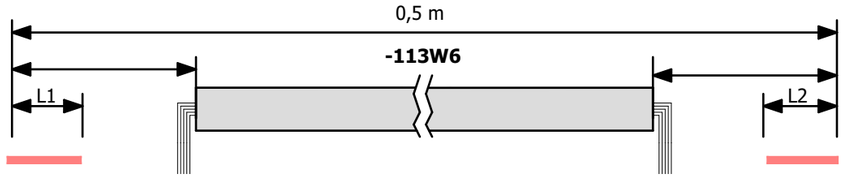
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.3-113U2:8	*Control cabinet 1*

Editor	Freqcon_DG			Statron	FREQCON	CABEL LIST	20241105_V1.2	= UNIT_01 Converter Container 1
Date	05.11.2024							& EMB Cable list
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ CT Control cabinets page: 6
Date								+ total: 498

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Cable name =UNIT_01++CT+-113W6
Cable type Patch cable Cat.6 4x2x0,25 mm²
Free conductors

Cable parts REI.PATCH-C6 05 GN
Order number PATCH-C6 05 GN

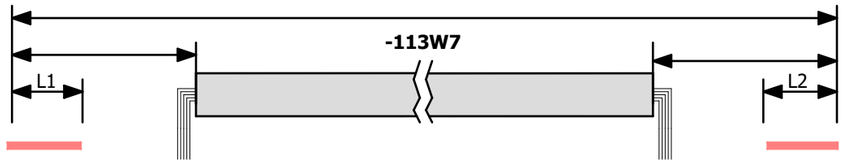


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-113T2:7			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.3-113U3:OUT	*Control cabinet 1*

Cable name =UNIT_01++CT+-113W7
Cable type Patch cable Cat.6 4x2x0,25 mm²
Free conductors

Cable parts
Order number

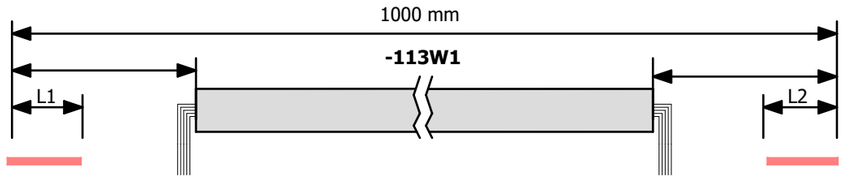


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-113U3:IN			

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
			+CTRL_1.3-113U4:8	*Control cabinet 1*

Cable name =UNIT_01++CT+-113W1
Cable type RJ45 / CAT 6 4x2x0,25 mm²
Free conductors

Cable parts
Order number

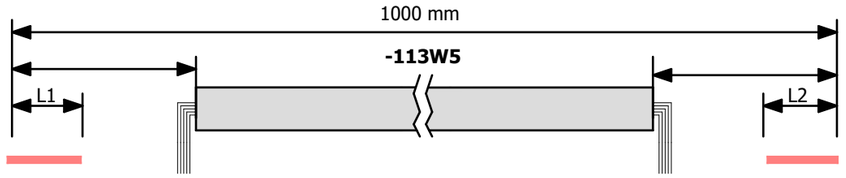


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-111A1:X4:1-8		RJ45 connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	RJ45 connector		+CTRL_1.3-113T1:15	*Control cabinet 1*

Cable name =UNIT_01++CT+-113W5
Cable type RJ45 / CAT 6 4x2x0,25 mm²
Free conductors

Cable parts
Order number

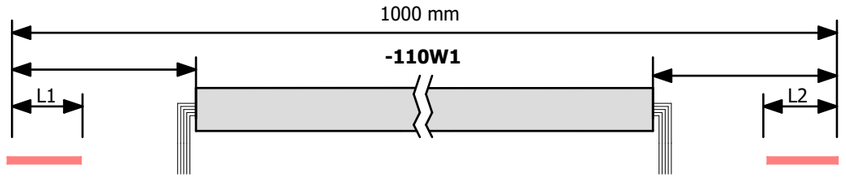


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.3-111A1:X5:1-8		RJ45 connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	RJ45 connector		+CTRL_1.3-113T2:15	*Control cabinet 1*

Cable name =UNIT_01++CT+-110W1
Cable type RJ45 / CAT6 4x2x0,25 mm²
Free conductors

Cable parts
Order number



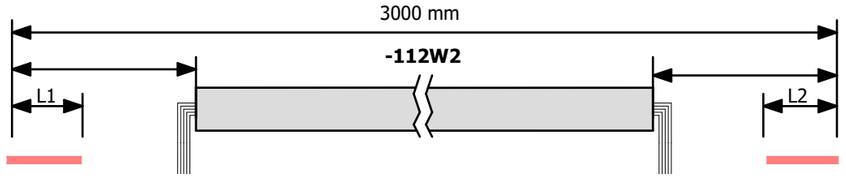
Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.2-110U1:P1		RJ45 connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	RJ45 connector		+CTRL_1.3-111A1:X1:1-8	*Control cabinet 1*

Editor	Freqcon_DG			Statron	FREQCON	CABEL LIST	20241105_V1.2	= UNIT_01	Converter Container 1	
Date	05.11.2024							& EMB	Cable list	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore				++ CT	Control cabinets	page: 7
Date							10354_23A2007	+		total: 498

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Cable name =UNIT_01++CT+-112W2
Cable type RJ45 / CAT6 4x2x0,25 mm²
Free conductors

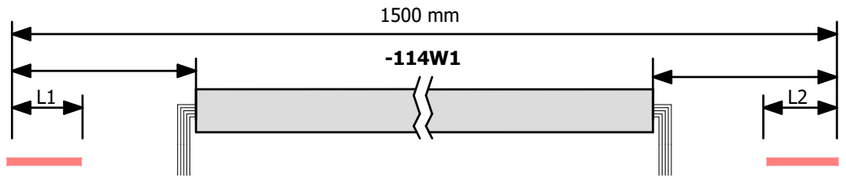


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.1-112A1		RJ45 connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	RJ45 connector		+CTRL_1.3-111A1:X2:1-8	*Control cabinet 1*

Cable name =UNIT_01++CT+-114W1
Cable type RJ45 / CAT6 4x2x0,25 mm²
Free conductors

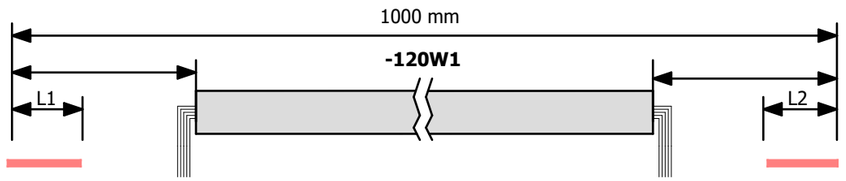


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.2-114A1		RJ45 connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	RJ45 connector		=UNIT_03++ASC-620A1:-X1:P2	

Cable name =UNIT_01++CT+-120W1
Cable type RJ45 / CAT6 4x2x0,25 mm²
Free conductors

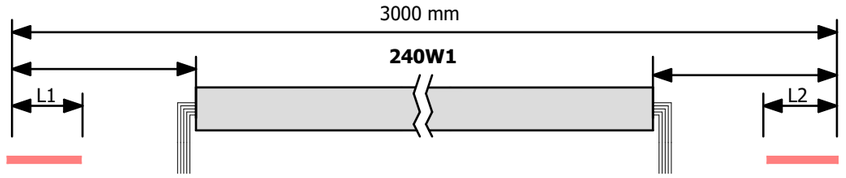


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.2-110U1:P3		RJ45 connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	RJ45 connector		+CTRL_1.3-120A1:-X1:P1	*Control cabinet 1*

Cable name =UNIT_01++CT+-240W1
Cable type pre-assembled D-Sub cable 1:1
Free conductors

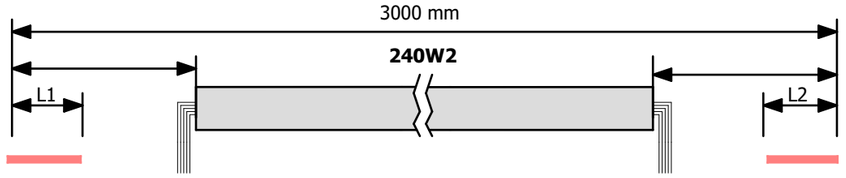


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-201Q1:CTRL		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-240U1:X1	*Control cabinet 2*

Cable name =UNIT_01++CT+-240W2
Cable type pre-assembled D-Sub cable 1:1
Free conductors



Cable parts
Order number

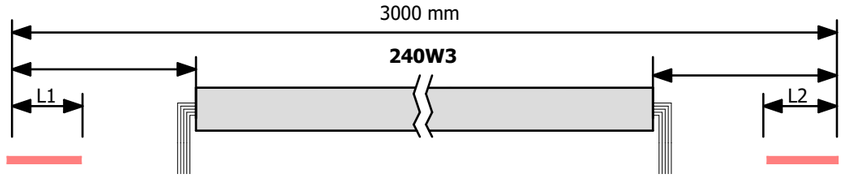
Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-202Q1:CTRL		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-240U1:X2	*Control cabinet 2*

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Cable name =UNIT_01++CT+-240W3
Cable type pre-assembled D-Sub cable 1:1
Free conductors

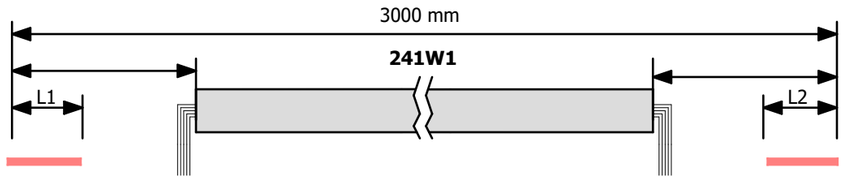


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-203Q1:CTRL		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-240U1:X3	***Control cabinet 2***

Cable name =UNIT_01++CT+-241W1
Cable type pre-assembled D-Sub cable 1:1
Free conductors

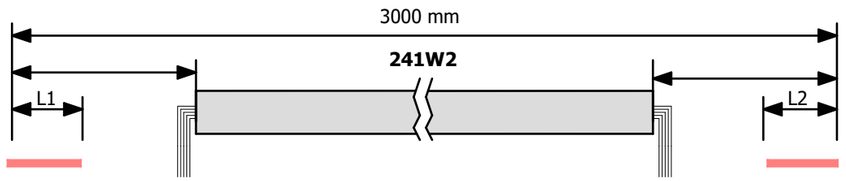


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-211Q1-U1:X1		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-241U1:X1	***Control cabinet 2***

Cable name =UNIT_01++CT+-241W2
Cable type pre-assembled D-Sub cable 1:1
Free conductors

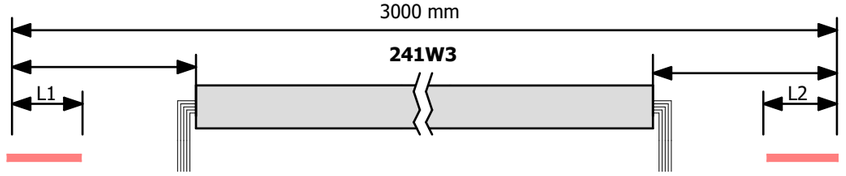


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-211Q1-U1:X2		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-241U1:X2	***Control cabinet 2***

Cable name =UNIT_01++CT+-241W3
Cable type pre-assembled D-Sub cable 1:1
Free conductors

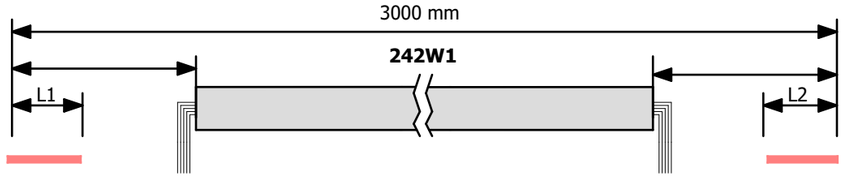


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-211Q1-U1:X3		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-241U1:X3	***Control cabinet 2***

Cable name =UNIT_01++CT+-242W1
Cable type pre-assembled D-Sub cable 1:1
Free conductors



Cable parts
Order number

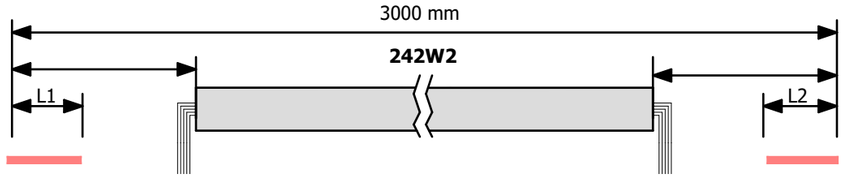
Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-207Q1-U1:X1		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-242U1:X1	***Control cabinet 2***

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Cable name =UNIT_01++CT+-242W2
Cable type pre-assembled D-Sub cable 1:1
Free conductors

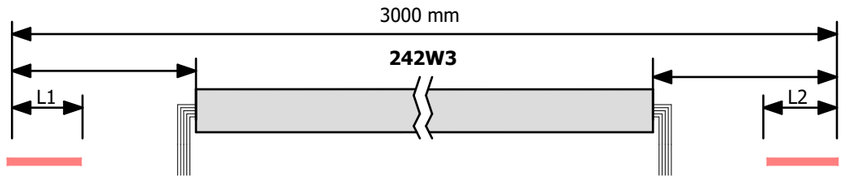


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-207Q1-U1:X2		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-242U1:X2	***Control cabinet 2***

Cable name =UNIT_01++CT+-242W3
Cable type pre-assembled D-Sub cable 1:1
Free conductors

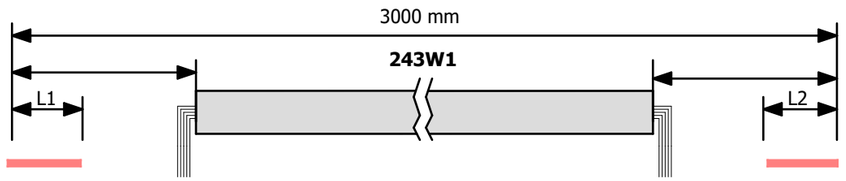


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-207Q1-U1:X3		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-242U1:X3	***Control cabinet 2***

Cable name =UNIT_01++CT+-243W1
Cable type pre-assembled D-Sub cable 1:1
Free conductors

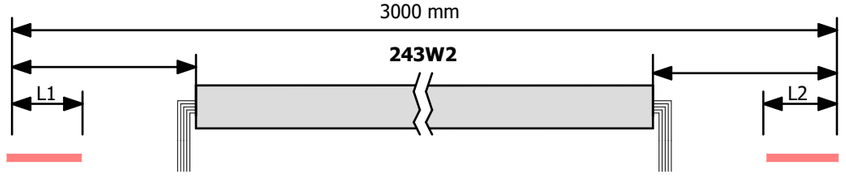


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-217Q1-U1:X1		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-243U1:X1	***Control cabinet 2***

Cable name =UNIT_01++CT+-243W2
Cable type pre-assembled D-Sub cable 1:1
Free conductors

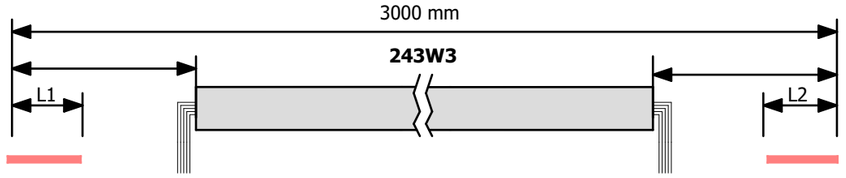


Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-217Q1-U1:X2		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-243U1:X2	***Control cabinet 2***

Cable name =UNIT_01++CT+-243W3
Cable type pre-assembled D-Sub cable 1:1
Free conductors



Cable parts
Order number

Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Converter cabinet	++CONV+CON-217Q1-U1:X3		Connector	

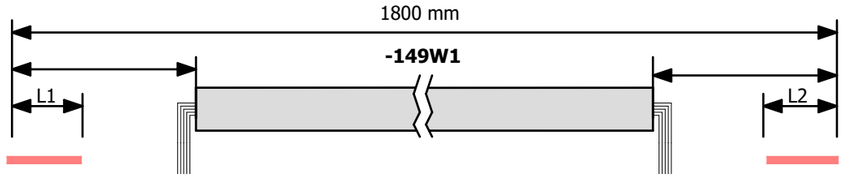
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-243U1:X3	***Control cabinet 2***

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Cable name =UNIT_01++CT+-149W1
Cable type pre-assembled D-Sub cable 1:1
Free conductors

Cable parts DIS.671476
Order number

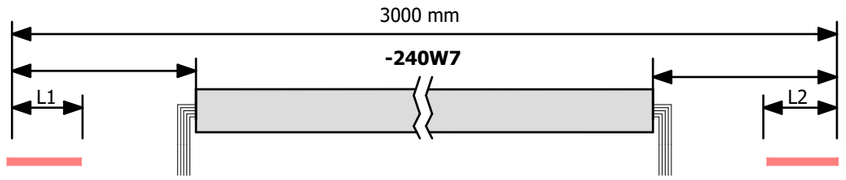


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 1	+CTRL_1.4-149U1:11X3		Connecor	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Female connector		+CTRL_2.1-162U1:11X3	*Control cabinet 2*

Cable name =UNIT_01++CT+-240W7
Cable type pre-assembled D-Sub cable 1:1
Free conductors

Cable parts DIS.125-30-097
Order number 125-30-097

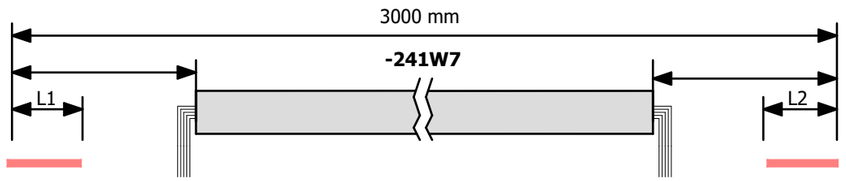


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-160U1:11X3		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-240U1:X7	*Control cabinet 2*

Cable name =UNIT_01++CT+-241W7
Cable type pre-assembled D-Sub cable 1:1
Free conductors

Cable parts DIS.125-30-097
Order number 125-30-097

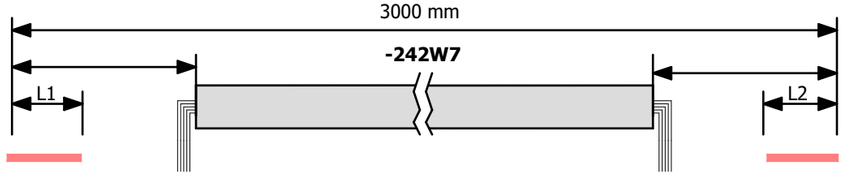


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-161U1:11X3		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-241U1:X7	*Control cabinet 2*

Cable name =UNIT_01++CT+-242W7
Cable type pre-assembled D-Sub cable 1:1
Free conductors

Cable parts DIS.125-30-097
Order number 125-30-097

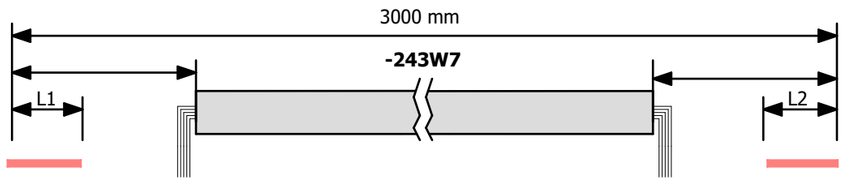


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-163U1:11X3		Connector	

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-242U1:X7	*Control cabinet 2*

Cable name =UNIT_01++CT+-243W7
Cable type pre-assembled D-Sub cable 1:1
Free conductors

Cable parts DIS.125-30-097
Order number 125-30-097



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
Control cabinet 2	+CTRL_2.1-164U1:11X3		Connector	

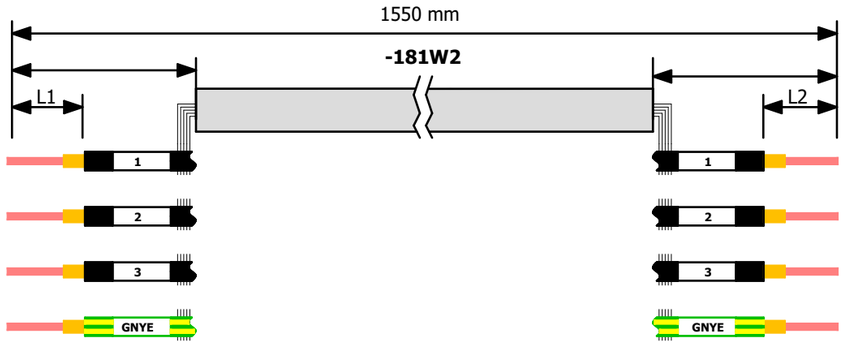
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
	Connector		+CTRL_2.1-243U1:X7	*Control cabinet 2*

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next page: ++FAN/1

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Cable name =UNIT_01++FAN+-52G1-181W2
Cable type JZ-600 4G1,5 mm²
Free conductors

Cable parts HELU.10659
Order number 10659

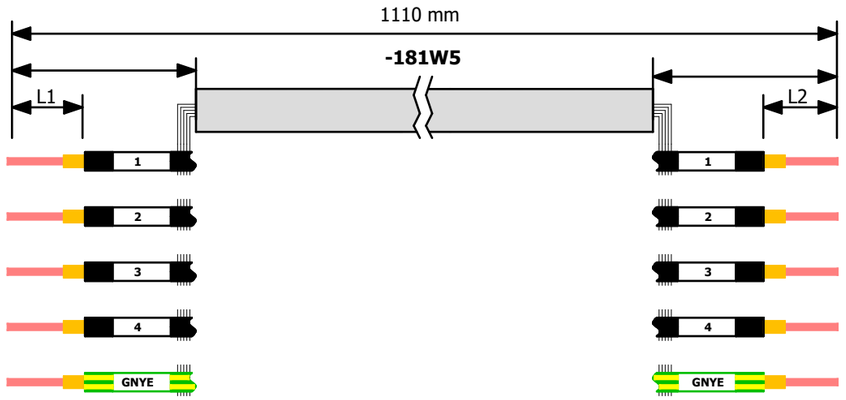


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
	-52G1-181X1:1:2	PUMP	stripped	8 mm
	-52G1-181X1:2:2	=	stripped	8 mm
	-52G1-181X1:3:2	=	stripped	8 mm
	-52G1-181X1:PE:2	=	stripped	8 mm

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
5 mm	Ring cable lug M4	PUMP	-52G1-181M1:U1	
5 mm	Ring cable lug M4	=	-52G1-181M1:V1	
5 mm	Ring cable lug M4	=	-52G1-181M1:W1	
5 mm	Ring cable lug M4	=	-52G1-181M1:PE	

Cable name =UNIT_01++FAN+-52G1-181W5
Cable type JZ-600 5G1,5 mm²
Free conductors

Cable parts HELU.10661
Order number 10661

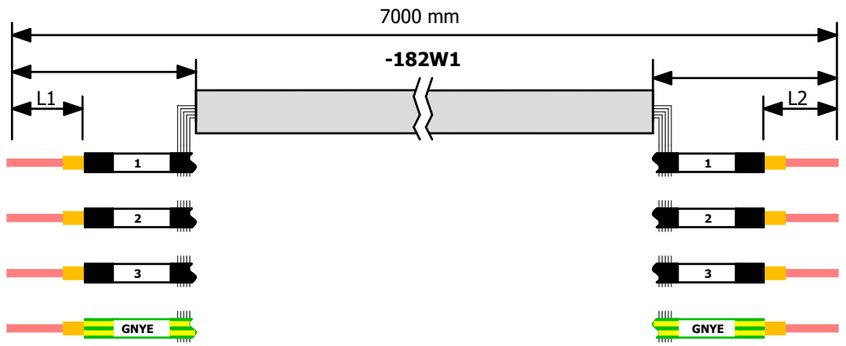


Mounting location:	Source	Function text source	wire end handling	L1 [mm]
	-52G1-181X1:4:2	FUSE FOR PUMP	stripped	8 mm
	-52G1-181X1:5:2	HEATER	stripped	8 mm
	-52G1-181X1:6:2	=	stripped	8 mm
	-52G1-181X1:7:2	=	stripped	8 mm
	-52G1-181X1:PE:2	=		

L2 [mm]	wire end handling	Function text target	Target	Mounting location:
5 mm	Ring cable lug M4	FUSE FOR PUMP	-52G1-181R1:x1	
5 mm	Ring cable lug M4	HEATER	-52G1-181R1:x3	
5 mm	Ring cable lug M4	=	-52G1-181R1:x5	
5 mm	Ring cable lug M4	=	-52G1-181R1:x6	
		=	-52G1-181R1:PE	

Cable name =UNIT_01++FAN+-52G1-182W1
Cable type JZ-600 5G1,5 mm²
Free conductors

Cable parts HELU.10659
Order number 10659



Mounting location:	Source	Function text source	wire end handling	L1 [mm]
	-52G1-181X1:8:2	FAN 1 HEAT EXCHANGER	stripped	8 mm
	-52G1-181X1:9:2	=	stripped	8 mm
	-52G1-181X1:10:2	=	stripped	8 mm
	-52G1-181X1:PE:2	=	stripped	8 mm

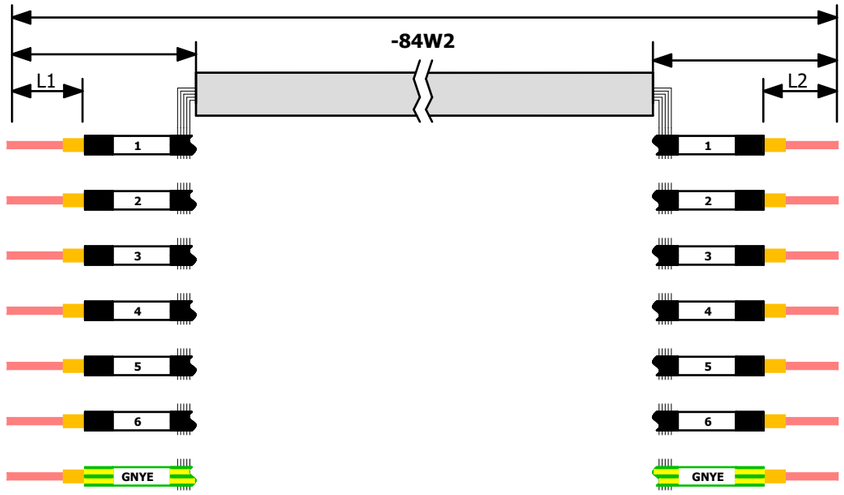
L2 [mm]	wire end handling	Function text target	Target	Mounting location:
8 mm	End splice	FAN 1 HEAT EXCHANGER	-52G1-182M1:U1	
8 mm	End splice	=	-52G1-182M1:V1	
8 mm	End splice	=	-52G1-182M1:W1	
8 mm	End splice	=	-52G1-182M1:PE	

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next page: ++EXTERN/1

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Cable name =UNIT_01++EXTERN+-84W2
Cable type JZ-600 5G16 mm²
Free conductors 7

Cable parts HELU.10150
Order number 10150



Mounting location:	Source	Function text source	wire end handling	L1 [mm]

L2 [mm]	wire end handling	Function text target	Target	Mounting location:

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++FAN/1

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&EMZ++CONV+IND/1000

Editor	Freqcon_DG			Statron	FREQCON	CABEL LIST	20241105_V1.2	= UNIT_01 Converter Container 1	
Date	05.11.2024							& EMB Cable list	
Proved by				Shell Crosswind BESS FQ 1MW 5MWh Offshore			10354_23A2007	++ EXTERN	page: 1
Date								+	total: 498

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