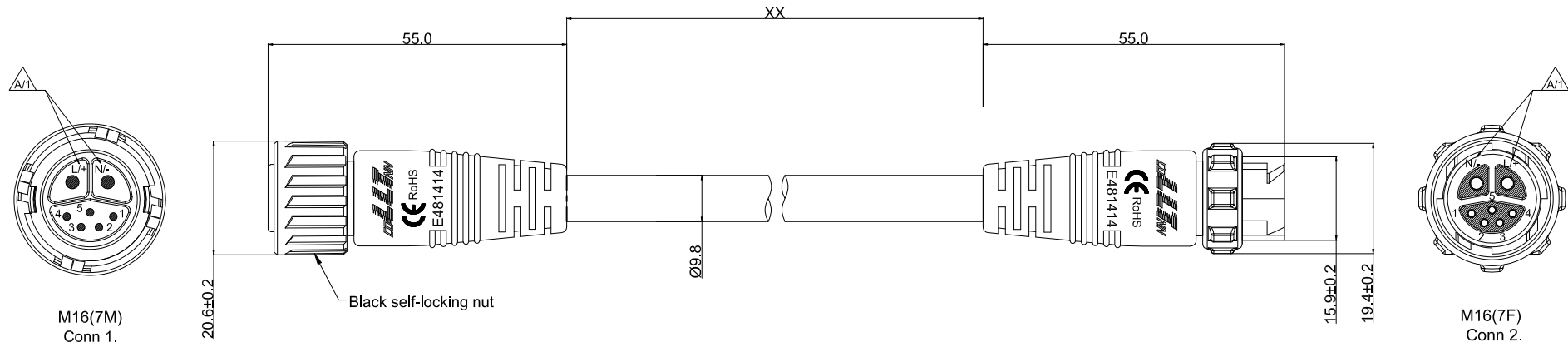
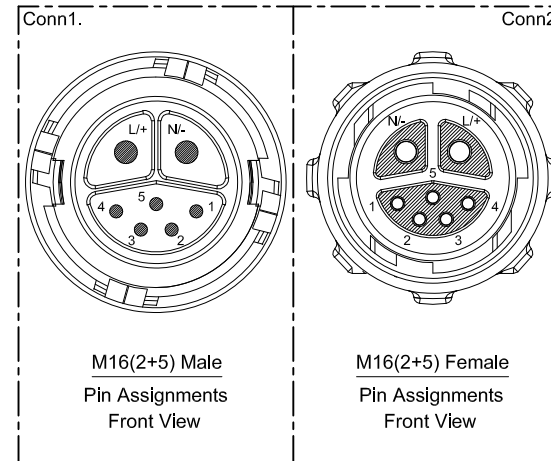


REVISION HISTORY			
DATE	REV.	DESCRIPTION	BY
2023-5-29	A	First Edtton.	Jlm,Il
2024-07-04	A/1	Update Power Pin Identifier.	Jlm,Il



Drawing applies to:
 MAR-91700100 DC + Ethernet Cable DCE-DCE 1m
 MAR-91700101 DC + Ethernet Cable DCE-DCE 2.5m
 MAR-91700102 DC + Ethernet Cable DCE-DCE 5m
 MAR-91700103 DC + Ethernet Cable DCE-DCE 10m
 MAR-91700104 DC + Ethernet Cable DCE-DCE 25m
 MAR-91700105 DC + Ethernet Cable 100m (No Connectors)
 MAR-91700106 DC + Ethernet Cable LSZH 100m (No Connectors)

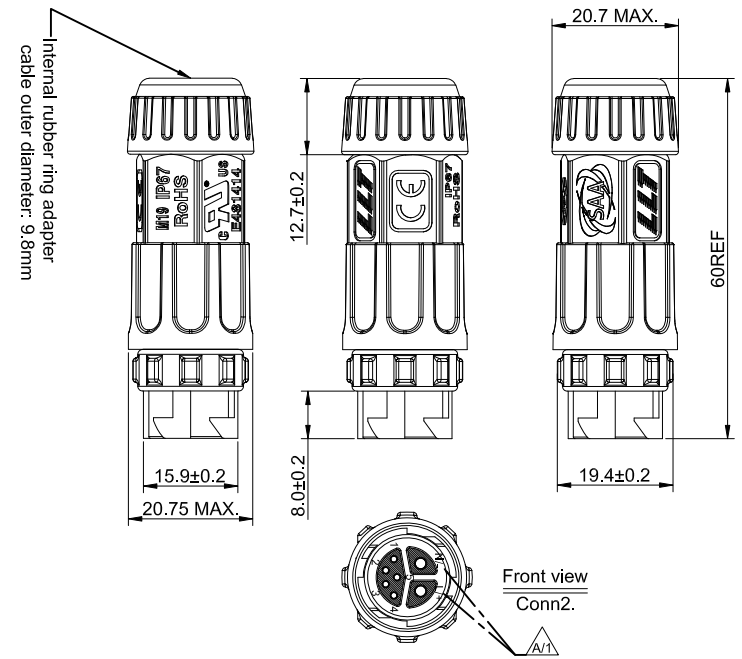
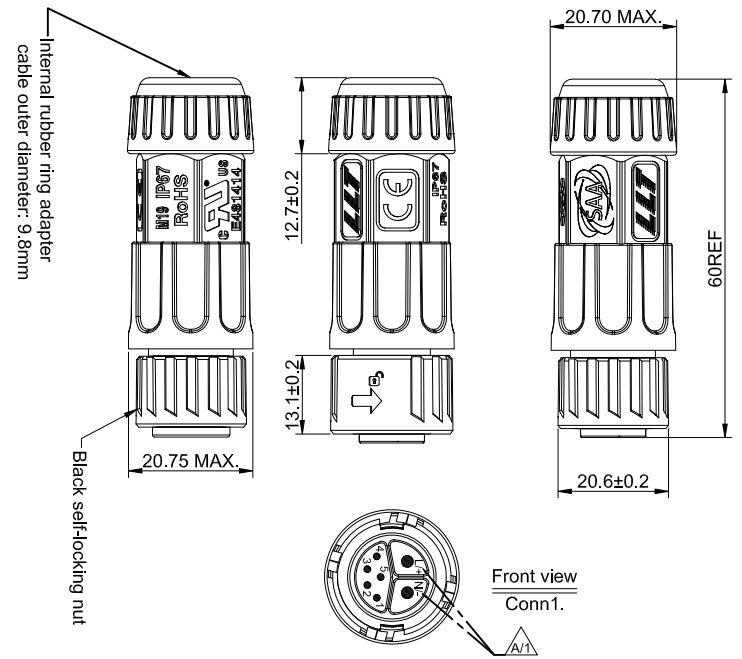
- NOTE:
1. Operation Temperature: Connector (-30°C~105°C)/ Cable(-30°C~80°C)
 2. Waterproof Rating: IP67
 3. Connection Style(Pin&Wire): Soldering
 4. Over-mold Material: Nylon
 5. Fireproof Rating: UL94V-0
 6. Connector Contact: Power Pin $\varnothing 1.5$ mm,Signal Pin $\varnothing 0.8$ mm
 7. Contact & Coating: Brass With Gold Plated
 8. Sealing: Silica Gel O-ring
 9. Current Rating: Power Pin 10A,Signal Pin 3A
 10. Voltage Rating: DC 48V
 11. Hot-Pluggable(According to UL1977): 48V,15A,250 Cycles
 12. Cable:UL21388 Type,UL758 Certificate
 13. Cable Minimum Bending Radius:12"D



P1	Function	Cable Color	P2
L/+	Power	Vcc(48v)	Red (15AWG,1.65mm ²)
N/-	Power	GND	Black (15AWG,1.65mm ²)
1	Data	Data TX +	White/Orange (24AWG,0.2mm ²)
2	Data	Data TX -	Orange (24AWG,0.2mm ²)
3	Data	Data RX +	White/Green (24AWG,0.2mm ²)
4	Data	Data RX -	Green (24AWG,0.2mm ²)
5	Data	Data Shield	Data Shield (24AWG,0.2mm ²)

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	General linear tolerance		
<small>ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT. SUPPLIER SHALL PROVIDE A CERTIFICATE OF ROHS COMPLIANCE WITH THE FIRST ARTICLE.</small>	General angular tolerance	Color	<small>TITLE (Modify in view)</small> DC + Ethernet Cable DCE-DCE
	General geometrical tolerance	Project number	<small>DC + Ethernet Cable DCE-DCE</small> NL MAR-917001 X X REV A
<small>DIMENSIONS SHOWN ARE FOR REFERENCE AND INSPECTION. ONLY REFER TO CAD MODEL PROVIDED WITH THIS DRAWING FOR OVERALL IDENTIFICATION OF PART GEOMETRY.</small>		<small>SIZE</small> A3 <small>SCALE</small> 1:1 <small>UNIT</small> mm <small>DO NOT SCALE DRAWING</small>	<small>SHEET</small> 1 <small>OF</small> 1

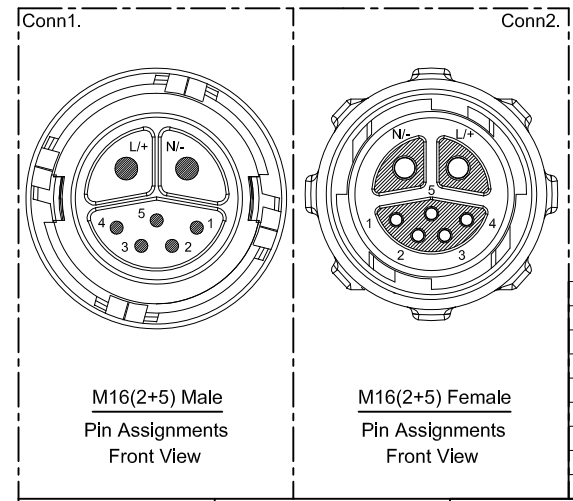
REVISION HISTORY			
DATE	REV.	DESCRIPTION	BY
2023-5-29	A	First Edtton.	Jlm,ll
2024-07-04	A/1	Update Power Pin Identifier.	Jlm,ll



Drawing applies to:
 MAR-91700107 Field-installable Connector DCE Male
 MAR-91700108 Field-installable Connector DCE Female

Technical Specs:
 Current Rating: 10A(Power Pin),3A(Data Pin)
 Voltage Rating: 48V/48V DC
 Pcontact Resistance: ≤20 mΩ
 Insulation Resistance: ≥20MΩ
 Dielectric Strength: Min 600VRMS
 Mechanical Life: Min 1500 Cycles
 Operation Temperature: -30°C To +105°C
 Waterproof Grade: IP67
 Connection Style: Soldering

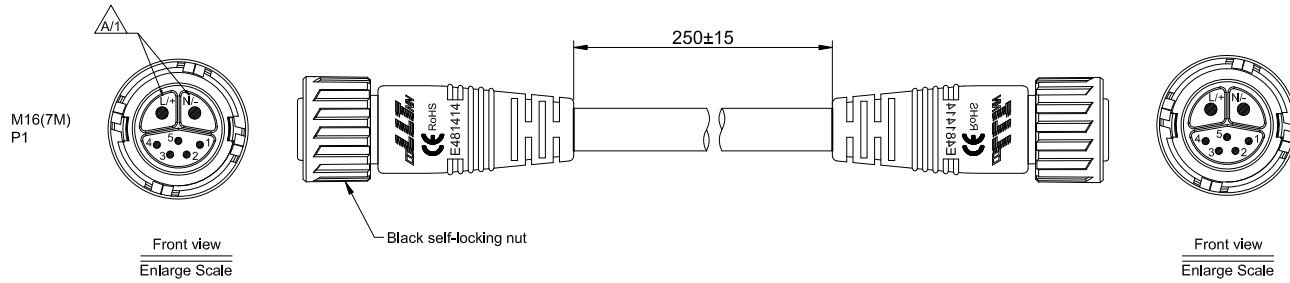
Material:
 Contact: Brass, Gold-plated
 Contact Plastic: Nylon,UL94V-0
 Glue Filling: Epoxy Resin
 Sealing:Silica Gel O-ring



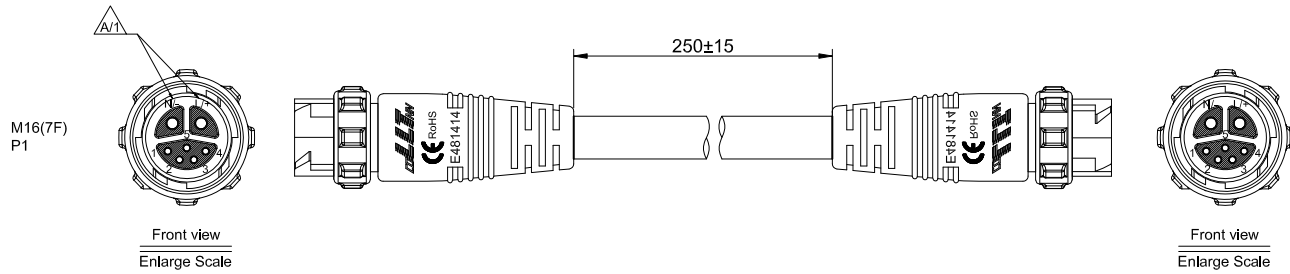
P1	Function	Cable Color	P2
L/+	Power Vcc(48v)	Red (15AWG,1.65mm²)	L/+
N/-	Power GND	Black (15AWG,1.65mm²)	N/-
1	Data Data TX +	White/Orange (24AWG,0.2mm²)	1
2	Data Data TX -	Orange (24AWG,0.2mm²)	2
3	Data Data RX +	White/Green (24AWG,0.2mm²)	3
4	Data Data RX -	Green (24AWG,0.2mm²)	4
5	Data Data Shield	Data Shield (24AWG,0.2mm²)	5

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	<small>RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT.</small>	Surface treatment Color Project number	

REVISION HISTORY			
DATE	REV.	DESCRIPTION	BY
2023-5-29	A	First Edtton.	Jlm,ll
2024-07-04	A/1	Update Power Pin Identifier.	Jlm,ll



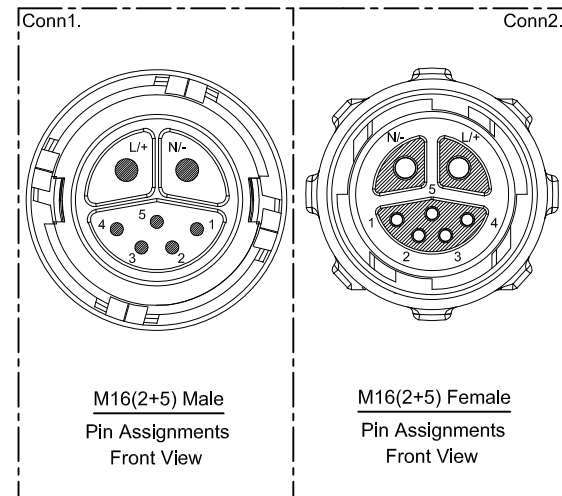
M16(7M) P1 MAR-91700111(DC + Ethernet Adapter DCE Male-Male)



M16(7F) P2 MAR-91700112(DC + Ethernet Adapter DCE Female-Female)

NOTE:

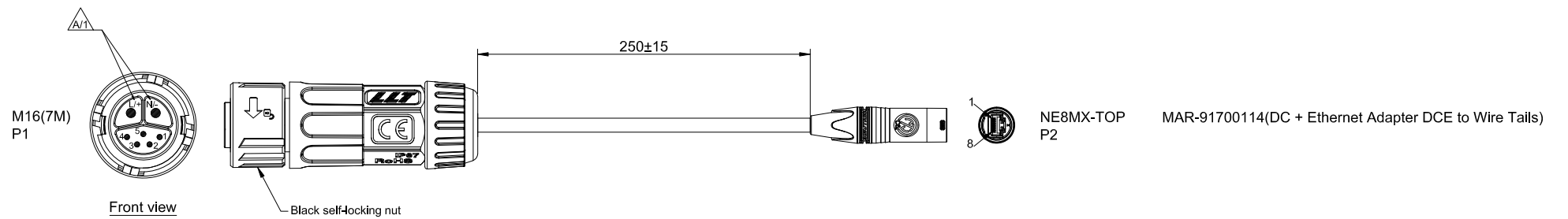
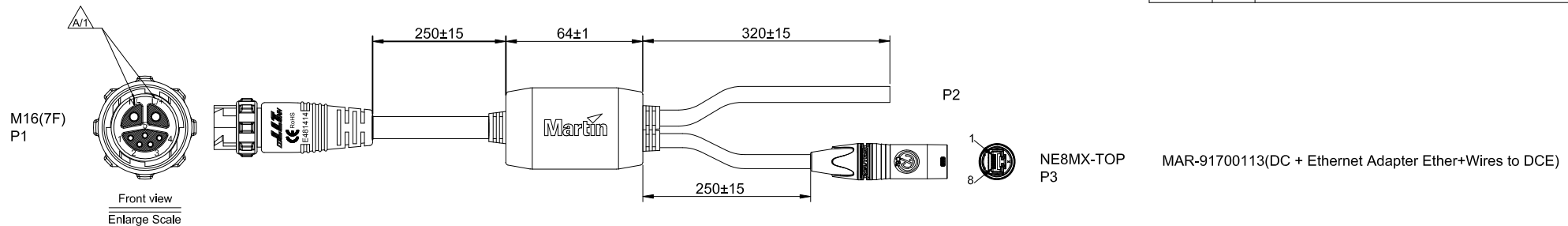
1. Operation Temperature: Connector (-30°C~105°C)/ Cable (-30°C~80°C)
2. Waterproof Rating: IP67
3. Connection Style(Pin&Wire): Soldering
4. Over-mold Material: Nylon
5. Fireproof Rating: UL94V-0
6. Connector Contact: Power Pin Ø1.5mm,Signal Pin Ø0.8mm
7. Contact & Coating: Brass With Gold Plated
8. Sealing: Silica Gel O-ring
9. Current Rating: Power Pin 10A,Signal Pin 3A
10. Voltage Rating: DC 48V
11. Hot-Pluggable(According to UL1977): 48V,15A,250 Cycles
12. Cable:UL21388 Type,UL758 Certificate
13. Cable Minimum Bending Radius:12*D



P1	Function	Cable Color	P2
L/+	Power Vcc(48v)	Red (15AWG,1.65mm²)	L/+
N/-	Power GND	Black (15AWG,1.65mm²)	N/-
1	Data Data TX +	White/Orange (24AWG,0.2mm²)	1
2	Data Data TX -	Orange (24AWG,0.2mm²)	2
3	Data Data RX +	White/Green (24AWG,0.2mm²)	3
4	Data Data RX -	Green (24AWG,0.2mm²)	4
5	Data Data Shield	Data Shield (24AWG,0.2mm²)	5

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	<small>ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT.</small>	Surface treatment Color Project number		ML MAR-917001 X X SIZE A3 SCALE 1:1 UNIT PPM DO NOT SCALE DRAWING SHEET 1 OF 1

REVISION HISTORY			
DATE	REV.	DESCRIPTION	BY
2023-6-30	A	First Edttion.	Jlm,Il
2024-07-04	A/1	Update Power Pin Identifier.	Jlm,Il



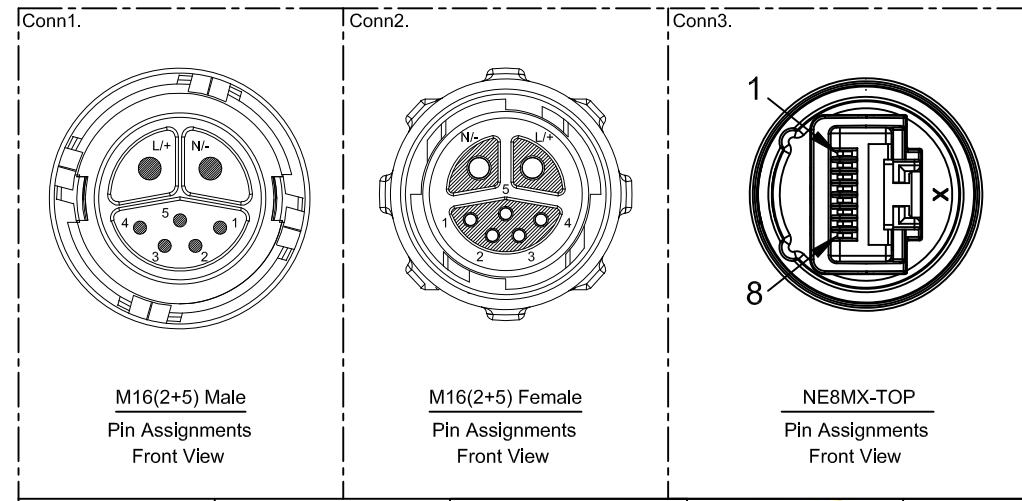
- NOTE:**
1. Operation Temperature: Connector (-30°C~105°C)/ Cable (-30°C~80°C)
 2. Waterproof Rating: IP65
 3. Connection Style(Pin&Wire): Soldering
 4. P1 Over-mold Material: Nylon
 5. SR Over-mold Material: PVC
 6. Fireproof Rating: UL94V-0
 7. Connector Contact: Power Pin Ø1.5mm,Signal Pin Ø0.8mm
 8. Contact & Coating: Brass With Gold Plated
 9. Sealing: Silica Gel O-ring
 10. Current Rating: Power Pin 10A,Signal Pin 3A
 11. Voltage Rating: DC 48V
 12. Hot-Pluggable(According to UL1977): 48V,15A,250 Cycles
 13. Cable:UL21388 Type,UL758 Certificate
 14. Cable Minimum Bending Radius:12°D
 15. CAT.5e Minimum Bending Radius:8°D

P1	Function	Cable Color	P2
L/+	Power	Vcc(48v)	---
N/-	Power	GND	---
1	Data	Data TX +	1
2	Data	Data TX -	2
3	Data	Data RX +	3
4	Data	Data RX -	6
5	Data	Data Shield	Shell
---	---	Blue (24AWG,0.2mm²)	4
---	---	White/Blue (24AWG,0.2mm²)	5
---	---	White/Brown (24AWG,0.2mm²)	7
---	---	Brown (24AWG,0.2mm²)	8

PIN OUT(MAR-91700114)

P1	Function	Cable Color	P2	P3
L/+	Power	Vcc(48v)	CUT	---
N/-	Power	GND	CUT	---
1	Data	Ethernet TX +	---	1
2	Data	Ethernet TX -	---	2
3	Data	Ethernet RX +	---	3
4	Data	Ethernet RX -	---	6
5	Data	Ethernet Shield	---	Shell
---	---	Blue (24AWG,0.2mm²)	---	4
---	---	White/Blue (24AWG,0.2mm²)	---	5
---	---	White/Brown (24AWG,0.2mm²)	---	7
---	---	Brown (24AWG,0.2mm²)	---	8

PIN OUT(MAR-91700113)



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	ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT. <small>SUPPLIER SHALL PROVIDE A CERTIFICATE OF ROHS COMPLIANCE WITH THE FIRST ARTICLE.</small>	Surface treatment Color Project number		TITLE (Insert in view) DC + Ethernet Adapter Ether+Wires to DCE DC + Ethernet Adapter DCE to Wire Tails NO. MAR-917001 X X REV A
<small>DMS 11445 General Technical Specification] - apply to this item</small>	<small>SPONGING SHALL BE FOR REFERENCE AND INSPECTION ONLY. REFER TO CAD MODEL PROVIDED WITH THIS DRAWING FOR OVERALL GEOMETRY OF PART GEOMETRY.</small>	SIZE A3 SCALE 1:1 UNIT PPM	DO NOT SCALE DRAWING	SHEET 1 OF 1