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REV.	ECN NO.	DATE	SIGN	DESCRIPTION
A	Initiale Release	2015/07/18	Cary	Change Rev.01 To Rev.A
B	LEN1580223~234	2015/08/10	Feng_Li	Add Black PVC Cable
C	LEN1680626~643	2016/08/11	Yulong_wang	Add 6Pin & IP69K.

Technical Drawing:

Top View: Shows the connector with dimensions: $\varnothing 46.0$ (mm) for the main body diameter and $\varnothing L$ (mm) for the cable diameter. The connector is labeled "Amphenol".

Side View: Shows the connector with a 45.0° angle and a 12.90 (Hex.) dimension for the hexagonal part.

Bottom View: Shows the connector with a 12.90 (Hex.) dimension for the hexagonal part and a 12.90 (Hex.) dimension for the hexagonal part.

Notes:

- * $\varnothing$ Important Dimension.
- * Waterproof Rate: IP68, IP69K.
- * Connector: PU+GF, Black.
- * Male Pin: Copper Alloy, Gold Plated.
- * Screw Nut: Nylon, Black.
- * Outer Mold: PU, Black.
- * Cable: (A) UL2517, PVC Jacket, Yellow. (B) UL20549, PUR Jacket, Black. (D) UL2517, PVC Jacket, Black.
- * Rated Voltage: 3 & 4Pin 250V dc. or ac. 5Pin 60V dc. or ac. 6~12Pin 30V dc. or ac.
- * Rated Current: 3~5Pin 4A 6~8Pin 2A 10~12Pin 1.5A
- * Operating Temperature: -25~85°C
- * Cable Length Tolerance: 01M:±40mm 02M~05M:±60mm 06M~10M:±100mm 11M~30M:±200mm

Amphenol LTW
安費諾亮泰企業股份有限公司

UNIT: mm
TOLERANCE: ±0.5mm

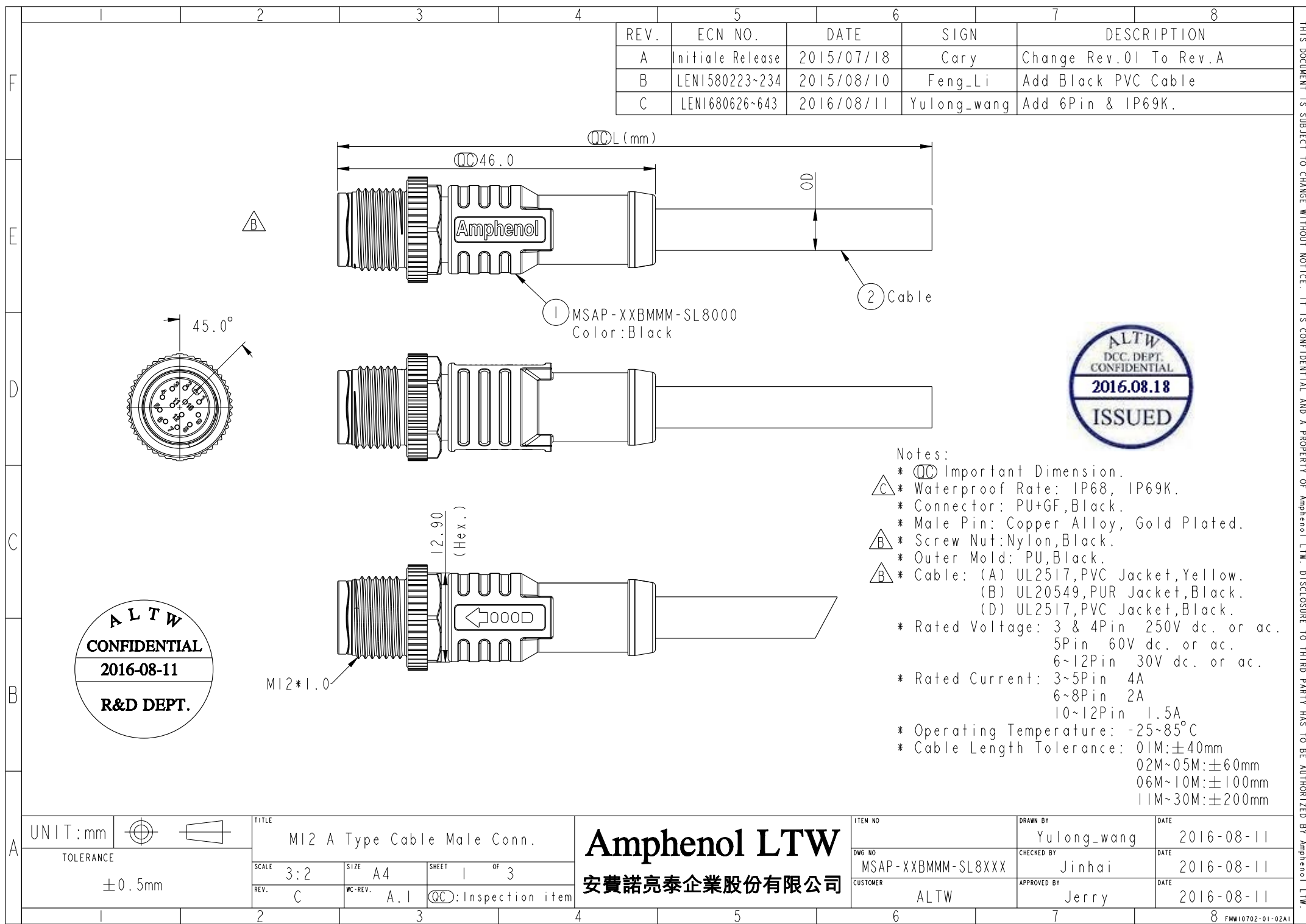
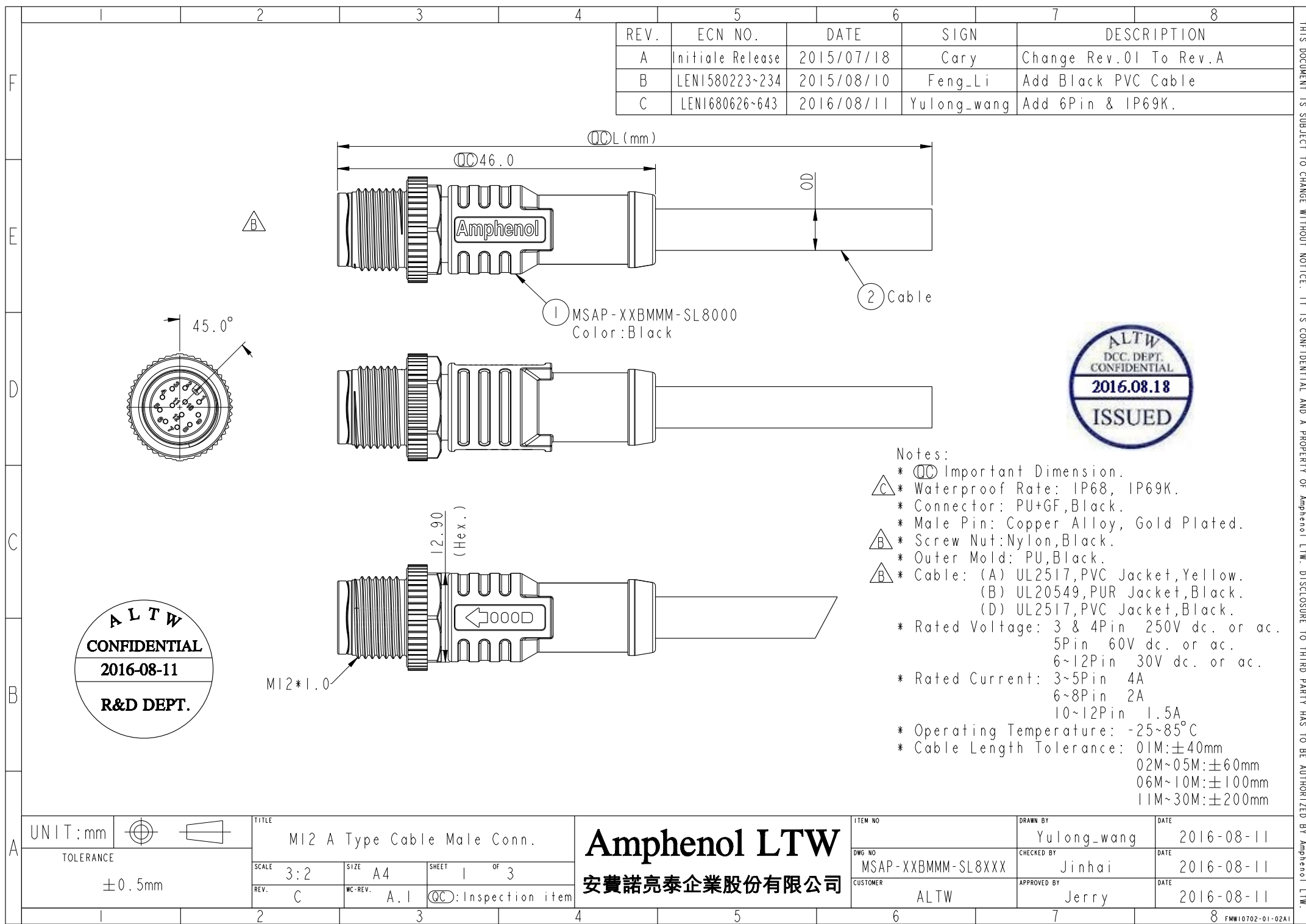
SCALE: 3:2
SIZE: A4
SHEET: 1 OF 3
REV.: C
WC-REV.: A.1
QC: Inspection item

ITEM NO: MSAP-XXBMMM-SL8XXX
CUSTOMER: ALTW

DRAWN BY: Yulong_wang
CHECKED BY: Jinhai
APPROVED BY: Jerry

DATE: 2016-08-11
DATE: 2016-08-11
DATE: 2016-08-11

ALTW
DCC. DEPT.
CONFIDENTIAL
2016.08.18
ISSUED



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Top View: Shows the connector with dimensions: Overall Length (L) in mm, and a specific length of 46.0 mm. The connector is labeled "Amphenol".

Side View: Shows the connector profile with a 45.0° angle on the front flange.

Bottom View: Shows the connector with dimensions: 12.90 (Hex.), and a thread specification of M12*1.0.

Part 1: MSAP-XXBMMM-SL8000
Color: Black

Part 2: Cable

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06M~10M:±100mm
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UNIT: mm		TOLERANCE		TITLE		Amphenol LTW		ITEM NO		DRAWN BY		DATE	
±0.5mm				M12 A Type Cable Male Conn.		安費諾亮泰企業股份有限公司		MSAP-XXBMMM-SL8XXX		Yulong_wang		2016-08-11	
SCALE 3:2		SIZE A4		SHEET 1 OF 3				CUSTOMER ALTW		CHECKED BY Jinhai		DATE 2016-08-11	
REV. C		WC-REV. A.1		QC: Inspection item						APPROVED BY Jerry		DATE 2016-08-11	

8 FMW10702-01-02A1

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Color: Black

Part 2: Cable

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REV. C		WC-REV. A.1		$\varnothing$: Inspection item						APPROVED BY Jerry		DATE 2016-08-11	

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	1	2	3	4	5	6	7	8			
F	ALTW DCC. DEPT. CONFIDENTIAL 2016.08.18 ISSUED					△B	12P	PVC	6.0	26	MSAP-12BMMM-SL8DXX
							10P				MSAP-10BMMM-SL8DXX
						△C	8P		5.5	24	MSAP-08BMMM-SL8DXX
							6P		5.0		MSAP-06BMMM-SL8DXX
E							5P			MSAP-05BMMM-SL8DXX	
							4P	4.8	22	MSAP-04BMMM-SL8DXX	
							3P	4.5		MSAP-03BMMM-SL8DXX	
							12P			MSAP-12BMMM-SL8BXX	
D						△C	10P	PUR	6.0	26	MSAP-10BMMM-SL8BXX
							8P		5.5	24	MSAP-08BMMM-SL8BXX
							6P		5.0		MSAP-06BMMM-SL8BXX
							5P		5.1		MSAP-05BMMM-SL8BXX
C							4P		4.8	22	MSAP-04BMMM-SL8BXX
							3P	4.5		MSAP-03BMMM-SL8BXX	
						△C	12P	PVC	6.0	26	MSAP-12BMMM-SL8AXX
							10P				MSAP-10BMMM-SL8AXX
	8P	5.5	24	MSAP-08BMMM-SL8AXX							
	6P	5.0		MSAP-06BMMM-SL8AXX							
B							5P		5.1		MSAP-05BMMM-SL8AXX
							4P		4.8		3MMM-SL8AXX
							3P		4.5		3MMM-SL8AXX
						Contacts	Cable Jacket	Cable OD	mm No.		
A	ALTW DCC. DEPT. CONFIDENTIAL 2016.08.18 ISSUED					ALTW CONFIDENTIAL 2016-08-11 R&D DEPT.					

M SAP - XX B M M M - S L 8 X XX

SAP:A-Code Plastic Nut

03: 3Pin

04: 4Pin

05: 5Pin

06: 6Pin △C

08: 8Pin

10: 10Pin

12: 12Pin

B: Cable Without S/R(線端無網尾)

M: Male Connector(公座)

M: Male Pin(公Pin)

XX:01~99Meters

01:01Meter

02:02Meters

...

99:99Meters

A: PVC UL2517 Cable, Yellow(PVC黃色外被線材)

B: PUR UL20549 Cable, Black(PUR黑色外被線材)

△B D: PVC UL2517 Cable, Black(PVC黑色外被線材)

8: IP68/69K(防水等級68/69K) △C

L: Straight (180° 線端)

S: Screw(螺紋式)

M: Molding Type(射出成型)

UNIT:mm		TITLE		M12 A Type Cable Male Conn.		ITEM NO		DRAWN BY		DATE	
TOLERANCE		SCALE	3:2	SIZE	A4	SHEET	2	OF	3	CHECKED BY	Jinhai
±0.5mm		REV.	C	WC-REV.	A.1	QC: Inspection item		APPROVED BY		Jerry	DATE
						ALTW				2016-08-11	

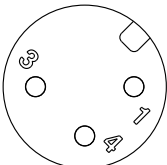
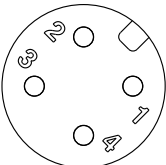
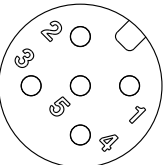
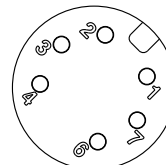
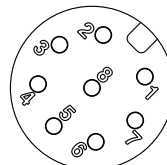
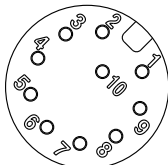
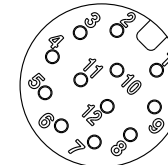
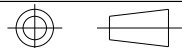
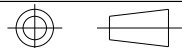
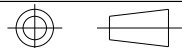
Amphenol LTW

安費諾亮泰企業股份有限公司

DWG NO	MSAP-XXBMMM-SL8XXX	CUSTOMER	ALTW
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C	△C <table><tr><td>5 --</td><td>5 --</td><td>5 Gray</td><td>8 --</td><td>8 Red</td><td>12 --</td><td>12 Red/Blue</td><td>紅/藍</td></tr><tr><td>4 Black 黑</td><td>4 Black 黑</td><td>4 Black 灰黑</td><td>7 Blue 藍</td><td>7 Blue 藍</td><td>11 --</td><td>11 Gray/Pink 灰/粉</td><td></td></tr><tr><td>3 Blue 藍</td><td>3 Blue 藍</td><td>3 Blue 藍</td><td>6 Pink 粉</td><td>6 Pink 粉</td><td>10 Violet 紫</td><td>10 Violet 紫</td><td></td></tr><tr><td>2 --</td><td>2 White 白</td><td>2 White 白</td><td>5 --</td><td>5 Gray 灰</td><td>9 Black 黑</td><td>9 Black 黑</td><td></td></tr><tr><td>1 Brown 棕</td><td>1 Brown 棕</td><td>1 Brown 棕</td><td>4 Yellow 黃</td><td>4 Yellow 黃</td><td>8 Red 紅</td><td>8 Red 紅</td><td></td></tr><tr><td></td><td></td><td></td><td>3 Green 綠</td><td>3 Green 綠</td><td>7 Blue 藍</td><td>7 Blue 藍</td><td></td></tr><tr><td></td><td></td><td></td><td>2 Brown 棕</td><td>2 Brown 棕</td><td>6 Pink 粉</td><td>6 Pink 粉</td><td></td></tr><tr><td></td><td></td><td></td><td>1 White 白</td><td>1 White 白</td><td>5 Gray 灰</td><td>5 Gray 灰</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>4 Yellow 黃</td><td>4 Yellow 黃</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>3 Green 綠</td><td>3 Green 綠</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>2 Brown 棕</td><td>2 Brown 棕</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>1 White 白</td><td>1 White 白</td><td></td></tr><tr><td>Pin #</td><td>Wire</td><td>Pin #</td><td>Wire</td><td>Pin #</td><td>Wire</td><td>Pin #</td><td>Wire</td></tr></table>								5 --	5 --	5 Gray	8 --	8 Red	12 --	12 Red/Blue	紅/藍	4 Black 黑	4 Black 黑	4 Black 灰黑	7 Blue 藍	7 Blue 藍	11 --	11 Gray/Pink 灰/粉		3 Blue 藍	3 Blue 藍	3 Blue 藍	6 Pink 粉	6 Pink 粉	10 Violet 紫	10 Violet 紫		2 --	2 White 白	2 White 白	5 --	5 Gray 灰	9 Black 黑	9 Black 黑		1 Brown 棕	1 Brown 棕	1 Brown 棕	4 Yellow 黃	4 Yellow 黃	8 Red 紅	8 Red 紅					3 Green 綠	3 Green 綠	7 Blue 藍	7 Blue 藍					2 Brown 棕	2 Brown 棕	6 Pink 粉	6 Pink 粉					1 White 白	1 White 白	5 Gray 灰	5 Gray 灰							4 Yellow 黃	4 Yellow 黃							3 Green 綠	3 Green 綠							2 Brown 棕	2 Brown 棕							1 White 白	1 White 白		Pin #	Wire	Pin #	Wire	Pin #	Wire	Pin #	Wire
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