

## PCN – Process Change Notification

Change:	Product Coaxial Cable -- RG174 Shielding Wire Braiding from 48 braid change to 80 braid
Date:	2017/08/30
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### Affected Products

Model#	Part Number	Changes
1. AP Series	1. AP.25T.01.0160D	RG174 Coaxial cable shielding wire braiding from 48 braid change to 80 braid.
2. AGGP.25 Series	2. AP.25P.01.10000D	
3. AGGBP.25 Series	3. AGGP.25H.01.3050D	
4. Ulysses Series (AA102, AA162)	4. AGGP.25U.02.3050D	
5. Magma Series (AA170, AA171)	5. AGGP.25H.01.0250D	
6. Stingray Series (MA230, MA231)	6. AGGP.25I.01.1080D	
7. Wedge Series (MA260)	7. AGGBP.25C.01.3050D	
	8. AGGBP.25I.01.1080D	
	9. AA.102.301621	
	10. AA.162.301111	
	11. AA.170.301111	
	12. AA.171.301111	
	13. MA.230.LBC.001	
	14. MA230.LBC.003	
	15. MA230.LBC.022.go	
	16. MA230.LBC.002	
	17. MA230.LBC.011	
	18. MA230.LBC.014	
	19. MA230.LBC.009	
	20. MA230.LBC.015	
	21. MA230.LBC.019.ge	
	22. MA230.LBC.023.gw	
	23. MA231.LBC.001	
	24. MA231.LBC.003	
	25. MA231.LBC.002	
	26. MA260.A.LB.001	
	27. MA260.A.LB.002	

### Type of Change

- Hardware Modification  
 Production Process Advance  
 Others --.

### Description of Change

- In order to increase antenna coaxial cable shielding effect and also cable reliability level, Taoglas want to change RG174 coaxial cable shielding wire braiding from 48 braid to 80 braid.

## **Schedule**

2017, September, Taoglas will change RG174 Coaxial cable shielding wire braiding from 48 braid to 80 braid for production.

### **Forecast Estimated Transition Date**

**Sep/2017**

**Change Detail**

**48 braid RG-174 Coaxial cable spec,**

**SPECIFICATION**

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Rev:2

<b>STYLE</b>	<b>COAXIAL CABLE</b>		<b>DOCUMENT NO:</b> A2174XE301T	
<b>SIZE</b>	<b>RG-174</b>		<b>ESTABLISHED DATE :</b> 2011 / 05 / 30	
<b>UL STYLE</b>			<b>UL FILES NO.:</b> E234496	
<b>STANDARD:</b>				
<b>CONDUCTOR</b>	SIZE	26AWG		
	MATERIAL	BC		
	CONSTRUCTION	7 /0.160±0.008 mm		
<b>INSULATION</b>	STD. THICKNESS	0.52 mm		
	MIN. THICKNESS	0.44 mm		
	DIAMETER	1.52±0.10 mm		
	MATERIAL	XLPE		
	COLOR	NATURE		
<b>BRAID</b>	MATERIAL	TC		
	CONSTRUCTION	16/3/0.10±0.008 mm		
<b>JACKET</b>	STD. THICKNESS	0.39 mm		
	MIN. THICKNESS	0.31 mm		
	DIAMETER	2.70±0.15 mm		
	MATERIAL	P.V.C.		
	COLOR	BLACK		
<b>ELECTRICAL &amp; PHYSICAL PROPERTIES:</b>				
RATING TEMPERATURE.		-20°C~+80°C		
RATING VOLTAGE		30 V		
CONDUCTOR RESISTANCE		142.6	Ω/Km/20°C max.	
INSULATION RESISTANCE		DC. 500V	1000 MΩ-Km/20°C min.	
<b>INSULATION</b>	Unaged	Tensile Strength	0.984 kg/mm <sup>2</sup> MIN.	
		Elongation	300 % MIN.	
	Aged	Tensile Strength	UNAGED MIN. 75 % (100±1°C×48HRS)	
		Elongation	UNAGED MIN. 75 % (100±1°C×48HRS)	
<b>JACKET</b>	Unaged	Tensile Strength	1.05 kg/mm <sup>2</sup> MIN.	
		Elongation	100 % MIN.	
	Aged	Tensile Strength	UNAGED MIN. 70 % (113±1°C×168HRS)	
		Elongation	UNAGED MIN. 65 % (113±1°C×168HRS)	
<b>COLD BEND TEST</b>		18±3 seconds for six turns @-20.0±2.0 °C/4h no breakdown		
<b>ATTENUATION</b>	1575.42 MHz	7.0	dB/5m max.	
	2.32 GHz	11.0	dB/6.4m max.	
	2.3325 GHz	11.0	dB/6.4m max.	
<b>CAPACITANCE</b>	導體與遮蔽體間 1 KHz	100±8	pF/m	
<b>IMPEDANCE</b>	10MHz ~ 3GHz	50±5	Ω	

Approval:

Checker:



Designer:



### 80 braid RG-174 Coaxial cable spec,

客戶名稱											
規格書編號											
TH-20160512-61											
線種名稱											
RG 174											
線種規格											
#26 X 1C											
FILE NO.											
線 種 構 造											
芯 線 數 目		1 PC									
導 體	構 造	26AWG( 7/0.16 mm)									
	材 質	裸軟銅絞線									
絕 緣	材 質	交連聚乙烯									
	厚 度	0.51 mm									
	外 徑	1.50 ± 0.10 mm									
	顏 色	原色									
隔 離	編 織	16/5/0.10 mm, 鍍錫軟銅線, 遮蔽率95% 以上									
被 覆	材 質	聚氯乙烯 (RoHS)									
	厚 度	0.40 mm									
	外 徑	2.75 ± 0.10 mm									
	顏 色	黑色									
印 字		RG-174/U COAXIAL CABLE 50 Ohm									
電 氣 特 性											
特性阻抗		50 ± 2 Ω									
靜電容量		101 pF/m Nom.									
波長傳輸率		66% Nom.									
耐電壓		2.0KV RMS Min.									
衰 減 (每100FT Nom)	MHz	1	10	50	100	200	400	700	900	1000	
	dB	1.9	3.3	5.8	8.4	12.5	19.0	27.0	31	34	