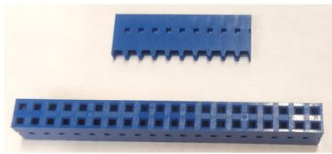
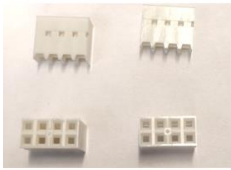


Product Name:	678 - Dubox	
	DUBOX receptacles, DUBOX CTW housings,	
Product Manager:	François PILLET	
Subject:	Notification of Change with Immediate Effectivity	
Distribution:	Affected customers	
Type of Change:	Materials Change	
Change Description:	<p>Use of alternative color of POCAN plastic material (white instead of blue) within our DUBOX parts.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Original color (Blue)</p>  </div> <div style="text-align: center;"> <p>Alternative color (natural)</p>  </div> </div>	
Reason for Change:	<p>"Due to an unexpected and unforeseen non-availability of Pocan B4235 blue thermoplastics, AFCI will not be able to deliver parts in blue colour as per immediate effect. As from the date of this PCN, in order to ensure the supply of the affected Dubox part numbers, AFCI will deliver these part numbers in the same material (Pocan B4235) with the exact same technical characteristics but in a natural colour for a period of time still to be defined. Until the availability of blue Pocan material is fully recovered & secured and unless clearly specified by customers, AFCI reserves the right to deliver the affected part series either in blue or natural color according to material availability. More detail is explained in the attached technical presentation. Note: the UL certificate remains valid for this Pocan natural material as well.</p> <p>We have been using Pocan blue for more than 20 years for our Dubox product family and we have never experienced an extreme situation like this."</p>	
Affected Parts:	See Affected Parts.xls file	
Effective Date of Change:	15 April ,2022	
Last Time Buy Date:		
Earliest Disty Return Date:		
Last Time Shipment Date		
Datasheet Attached?	NA	
Qual/Test Data Attached?	NA	
Samples Availability Date:	15 April ,2022	
Available Alternatives?		
Questions?	<i>Contact your local AICC Representative, or Product Manager</i>	
	<i>François PILLET / Product Manager</i>	
	<i>francois.pillet@amphenol-fci.com</i>	

Note:

Customers should contact Product Manager (or their local AICC Representative) directly regarding any concern on the PCN. Lack of any such customer feedback within three weeks of PCN release date will be interpreted as non-objection .

Resin Materials shortage management Supporting document

AFCI technical overview

March, 31th 2022

Amphenol Information Communications
and Commercial Products

 **FCi Basics**

Amphenol ICC

- Introduction - explanation of the situation
- Impacted products
- Identified solutions : resin color change
 - Evaluation of visual impact
- No technical impact
 - Data Sheets Materials review
 - Performance review
 - Dimensional review
- Conclusion & resin shortage management process
- Contact persons

- Because of unprecedented challenges to the global supply chain of engineering plastics, there is a short-term and unforeseeable shortage in POCAN resin (POCAN is a brand of Lanxess)
- This shortage impacts us at the level of POCAN B4235 505365 resin in blue color, used for several of our products.
- As soon as we have been informed of this Materials risk of shortage, we worked to identify and propose alternatives solutions.

- Below an overview of the base part numbers of Amphenol products that may be impacted :

Base part numbers	Designation
54783	DX VCC TMT
65166	LATCHING KEY
65167	PV
65239	Dubox
65240	Dubox
66987	FLEX 2.54
67013	DUFLEX HSNG SR .100-2P3S
67018	EJECT LATCH STD QKE HDR
71920	Dubox
71959	DX HDR SR .100 RA DP SH-
71966	DUBOX
71977	DBX HDR
71978	EURO QKE HDR RA DPWL RLG
71979	QKE HDR SS WRL RA DP-2P3
71980	EURO QKE HDR STR DP WOL-
71991	Dubox
71994	DX HDR RA DR.100 DP POL
71998	DX VERT CC DR. 100 DP-2P
73324	DUBOX HDR PRESS FIT
75867	QKE HDR SS RA DP
75869	QKE HDR SS STR DP
75915	Dubox
76308	PV
76314	PV
76341	DX VCC SR .100 DP
76342	DX VCC DR .100 DP
76382	DX HDR SR .100 RA DP SH
76383	DX HDR DR .100 RA DP SH
77424	DUBOX RECEPTACLE

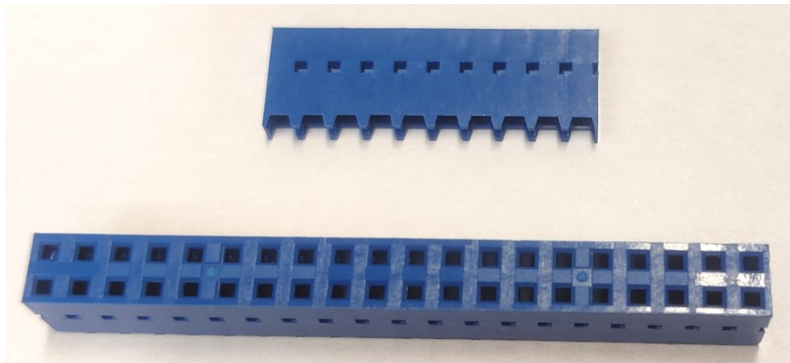
Base part numbers	Designation
77773	DX HDR SR.100 STR DP SH-
87606	Dubox
87610	Quickie
87627	DX VCC SR.100 DP SL
87654	DUBOX VCC SR POLARIZED-2
89847	Dubox
89852	DX HOR CC DR.100 DP POL
89882	Dubox
89883	Dubox
89885	Dubox
89891	Dubox
89892	Dubox
91625	DX VCC DR HE13 S.LOADED-
91687	DX HDR DR.100 STR DP
95200	DX VCC SR.100 DP POL
95228	DX HDR DR.100 STR DP SH-
95234	Dubox
95264	DX VCC DR.100 DP DE SL-2
98481	DUBOX HEADER
10079008	DUBOX
10085788	QUICKIE
10087124	SF BODY SSLIM 100 NG
10117931	DUBOX
10119778	DX HDR SR.100 STR DP SH-
10120730	DUBOX
10136035	DUBOX
10138610	HOUSING DUBOX CTW DR
10153749	QUICKIE WIRE TO WIRE
10158302	CUSTOMIZED DUBOX

PBT shortage management

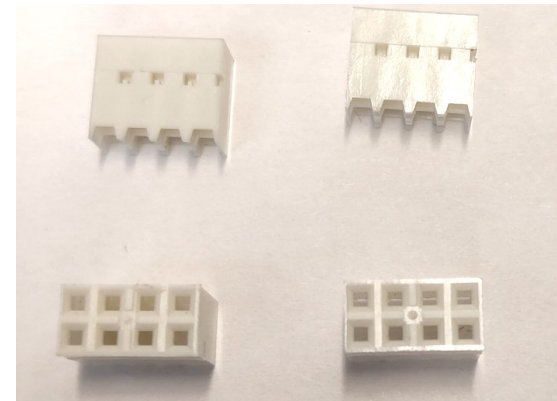
Identified solution

- The part will still be made out of POCAN B4235 but with natural color
- Below is the picture showing example of color difference between the original and the alternative solution in natural color.

Original color (Blue)



Alternative color (natural)



- Only the color is different, the raw material is exactly the same, from the same manufacturer.

PBT shortage management

No technical impact – datasheet

- As mentioned, the raw material is exactly the same from the same manufacturer. As evidence, below and attached is the material data sheet valid for both colors :
 - The 6 digit to identify the color code of the material proves that the data sheet is the same regardless of the color. Therefore: same performance.

DATA SHEET

LANXESS
Energizing Chemistry

Pocan B4235 000000

PBT, 30 % glass fibers, injection molding, flame retardant
ISO Shortname: ISO 7792-1-PBT, GFHMR, 09-110, GF30; ISO 1043-PBT GF FR (17)

Property	Test Condition	Unit	Standard	guide value
Rheological properties				
0 Melt volume flow rate	260 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	14



PBT Pocan B4235
- Datasheet

- The **YELLOW** cards for the UL certificates **remain valid** as well.

B4235+
Polybutylene Terephthalate (PBT), "POCAN", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.75	V-2	3	2	130	120	130
	1.5	V-0,5VA	2	2	130	130	140
	3.0	V-0, 5VA	1	2	130	130	140
	6.0	V-0, 5VA	0	2	130	130	140

- The identified PN are covered by several product specifications like « BUS-12-082 » and « BUS-12-085 » .

The material remains exactly the same having **only the color as difference from the original version**, the product stays **fully compliant with the products specifications listed**.

So, the below categories of properties are still valid :

- Electrical characteristics (current rating, contact resistance, LLCR & insulation resistance, dielectric Withstanding voltage)
- Mechanical characteristics (cable retention and flex resistance, durability, ...)
- Environmental conditions (humidity, Thermal shock, High T° life, Chock, vibration, H2S exposure, Salt spray...)

- The first batch of production with the alternative color (Natural instead of blue) have been controlled to confirm assembly.
- Our internal CCD system are not affected by the color change as well and are still performing.

Meaning: there is no difference between original parts and the new color proposed as alternative.

- Conclusion :

According to this presentation, except the color, there is absolutely **no functional difference** between the original product and the resin alternative we are going to engage.

- Resin shortage management process

Due to a very short timeframe to define a solution, a derogation is going to be submitted to each Customer, supported to this present presentation.

The **temporary deviation** informs of the situation and the period of the change of production.

All the questions or concerns related to this color change are to be addressed to your Sales contact person as usual.

Indeed, in order to support Customer, a specific project Team is in place into our AFCI factory of Besançon, in France.

This Team will be able to support any question you may have and help our Sales Team to provide you the appropriated answers.

Amphenol ICC

Thank you !