

ENGINEERING DRAWING: 15-08853-XXX

SPEC WRITER: HG

DATE: 07/06/22

REV: A Claas 2 Engineering Project

AUTHORIZATION: CC18869

PRODUCT: EXTRAD ERGOFLEX 120MM2 SHIELDED THIN WALL - CCC 18869

NOTICE: The material manufactured for this order must be traceable to raw material and production history. TRACEABILITY PROCEDURES MUST BE FOLLOWED. AUDIT # MUST BE RECORDED ON LABELS.

Use Traveler: Single Wire: SW-XXXXXX

Primary Extrusion:

Special Note:

EP				
Op Code:	1E0588			
Material:	EXRAD ERGOFLEX			
	Min Pt	Min AVG	NOM	Max
Conductor Diameter:		0.557"	0.569"	0.581"
Insulation Diameter:<D>		0.695"	0.715"	0.735"
Insulation Wall:		0.040"	0.070"	
Concentricity:	60% Min			
Insulation Shrinkage	None allowed			
Spark Test:	10.0 KVAC			
Lump/Neck :	10 Lump 10 Neckdown			
Tensile (psi) @ 12"/min	1000 psi Min			
Elongation @ 12"/min	550% Min			
Porosity:	None Allowed			
Color:	Per SAE			

Irradiation:

EP	
Op Code:	2I0569
Tensile (psi) @ 12"/min	1100psi Min
Elongation @ 12"/min	365% Min
Hot Set %	50% Max
Solder Iron	No Melting
Conductor to Insulation Bond @ Final 1.0" Slug @ 20"/Min.	Test and record bond result on traveler

Sparktest For Braiding:

EP	
Op Code:	3S0044

Braid:

EP			
Op Code:	5B2105		
Material:	34 1/34 TC		
Diameter:	0.743" Nom		
Coverage %	85%		
Construction	C-48	E-7	P-9

Jacket Extrusion:

EP	
Op Code:	1E0589
Material:	EXRAD ERGOFLEX
Jacket Diameter:<D>	0.828" Min, 0.853" Nom, 0.878" Max
Jacket Wall	0.040" Nom 0.055" Min
Concentricity:	70% Min
Insulation Shrinkage	None allowed
Spark Test:	10.0 KVAC
Lump/Neck (EP settings):	10 Lump 10 Neckdown
Tensile (psi) @ 12"/min	1000 psi Min
Elongation @ 12"/min	550% Min
Porosity:	None Allowed
Color:	Per SAE
Maguire Color Feeder	Settings Per OMP-0169
Frequenct of Tests	Per QCP-0309

Irradiation:**EP**

Op Code:	2I0570
Tensile (psi) @ 12"/min	1100psi Min
Elongation @ 12"/min	365% Min
Hot Set %	50% Max
Solder Iron	No Melting

Outer jacket to shield Bond @ Final 1.0" Slug @ 20"/Min.	Test and record bond result on traveler
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Dry Dielectric:**EP**

Op Code:	6D2001
Continuity:	Conductor to Shield - 0% Continuity
Dry Dielectric	2.5 Kv / 10 Seconds Conductor to Shield

Print/Packaging:**EP**

Op Code:	3S0042
Print Color:	BK
Print:	CHAMPLAIN CABLE 120MM2 THIN WALL SHIELDED ERGOFLEX XXXXX
	Where XXXXX is Audit Sheet Number
Print Spacing	12" Nom (start to start)

Quality:

Jacket Bond	N/A
Insulation Bond	N/A
Impedance	N/A

PACKAGING:

DASH	WIRE COLOR	JACKET COLOR	STRIPE COLOR	PRINT COLOR	MIN LGTH	MAX LGTHS	PUT-UP
-900	ORG	ORG	N/A	N/A	200'	1	Bulk for Packaging

PACKAGING:

DASH	WIRE COLOR	JACKET COLOR	STRIPE COLOR	PRINT COLOR	MIN LGTH	MAX LGTHS	PUT-UP	LABEL FORMAT
-001	ORG	ORG	N/A	N/A	100'	3	500' +/-10%	GENM