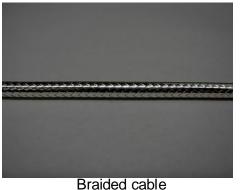
(5)		Part		Des	cription		Dia	meter	
(4) —	/ ¬	1	1 – Center Conductor		Silver Plated Copper- Solid			0.011" +/- 0.001		
$\overline{3}$			2 – Dielectric		Microporo	us PTFE 1	Гаре	0.033" (nomina		
			3 – Outer Conducto	r Silv	ver Plated	Copper Fl	at Braid	0.039"	0.039" (nominal)	
		4	4 – Shield	Silve	er Plated C	opper Rou	und Braid	0.049"	0.049" (nominal)	
		Γ,	5 – Jacket		Extruded FEP			0.060+/003" NA		
		5	Extruded Polyurethane		ane					
			Freq(Ghz)	1	3	6	9	12	18	
VSWR	1.20 : 1		Attenuation(dB/Ft)	0.384	0.670	0.956	1.180	1.370	1.693	
Impedance	50 +/- 2 ohms		1.80	Мах	imum Att	enuation	Values			
Velocity of Propagation	75% Nominal		1.40 1.20							
Delay	1.36ns/ft		(1.00 0.80 0.60	2						
Capacitance	27 pF		0.40							
Maximum Frequency	18Ghz		0.00 +	3	6	9 GHz	12	15	18	

Note: +5% IL deviation is allowed at 8-18Ghz.

CABLE OVERVIEW

cinch							
	DES	DESCRIPTION					
	SW060 WORK INSTRUCTIONS						
DATE 3/12/2012							
DRAWN BY J. Vidallon	SIZE	RoHS		DOCUMEN			
REVISED	A	COMPLIAN	1 T	WI-SW0	60		
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	BRAIDER SET-UP	
BRAIDER	16 CARRIER STEEGER	* 🖛
SIZING DIE	0.039"	*Exce
PICKS	22 +/- 0.5	deter
GEAR SIZE	34/22	re-sp
SPEED SETTING	100-150 ft/hr (typical)	
TENSION SETTING	Green Spring	
DIE HEIGHT	4.5-5.0" from the top of the carriers]
TARGET OD	0.037 - 0.041"]

sive handling can ate IL performance. No ling of cable prior to RB.

Notes:

1. Run 20ft length of cable through flat braid for first article sample and submit for electrical testing as per ETP70307 at initial setup and every new spool of core. Use connector PN: SMA109PF

2. Keep machine properly lubricated and clean tracks to prevent braid break.

3. All splices must be properly trimmed and bad spots marked.

4. Set and verify pay-off and take-up tension just enough to feed and wind cable properly. Too high tension can cause flat spot.

5. Check and ensure that all braids are on the guide rollers and are not twisted before running the braider.

6. Prevent lube and machine oil from coming in contact with the cable.

7. During setup, ensure that the tensions on each of the carriers are the same.

8. Allow 5-6 loops of cable on the capstan to get sufficient traction. Putting too much loops may cause flat spot.

FLAT BRAID PROCESS

MACHINE:	REF. DOC	ITEM	PART NO.	DESCRIPTION	<	
ST1 OR ST2	MGW44	1	80155-01	.010" X 0.0015" SPC FLAT WIRE	CINCN CONNECTIVITY SOLUTIONS	DESCRIPTION
	MGF86	2	80234	0.0108" SPC SOLID CONDUCTOR WITH PTFE MARLON CORE	a bel group	SW060 WORK INSTRUCTIONS
	MGF88				DATE 3/12/2012	
					DRAWN BY J. Vidallon	A COMPLIANT WI-SW060
					REVISED 4/29/2019	Form# 1327 Rev. 1 SHET 2 OF 7

BRAIDER SET-UP					
BRAIDER	16 CARRIER STEEGER				
SIZING DIE	0.086"				
PICKS	19 +/- 1				
GEAR SIZE	30/22				
SPEED SETTING	100-150 ft/hr (typical)				
TENSION SETTING	Green Spring				
TARGET OD	0.048" – 0.050"				
DIE HEIGHT	4.5-5" from the top of the carriers				



*Excessive handling can deteriorate IL performance. No unnecessary re-spooling of cable prior to extrusion.



Braider setup

Braided Cable

Notes:

- 1. Keep machine properly lubricated and clean tracks to prevent braid break.
- 2. All splices must be properly trimmed and bad spots marked.
- 3. Adjust take-up tension and traverse to prevent flattening of cable.
- 4. Check each braid to ensure that the ends are not mess-up (no leading or lagging end) before starting the machine. Leading or lagging braid end will cause frequent braid break. Check also when loading new bobbins.
- 5. Prevent lube and machine oil from coming in contact with the cable.
- 6. Ensure that the tensions on each of the carriers are the same.
- 7. Allow 5-6 loops of cable on the capstan to get sufficient traction. Putting too much loops may cause flat spot.

MACHINE:	REF. DOC	ITEM	PART NO.	DESCRIPTION	
ST1 or ST2	MGW44	1	80156-01	43AWG SPC 5 ENDS	
					SW060 WORK INSTRUCTIONS
					DATE 3/12/2012
					DRAWN BY J. Vidallon A COMPLIANT WI-SW060
					REVISED 4/29/2019 Form# 1327 Rev. 1 SHET 3 OF 7

ROUND BRAID PROCESS

- NO DASH – SLATE BLUE FEP JACKET

E	XTRUDER SET-UP
TIP	0.120 or 150
DIE	0.230 or 312
SCREW SPEED	~1 - 4 ref only
TRACTOR SPEED	Adjust to meet OD/jacket finish
COOLING TROUGH TEMP	120-140 deg F
MIN SPARK TESTER VOLTAGE	1.0 KV
JACKET OD	0.057 - 0.063"
COLOR MIX RATIO	40 OZ / 55 LBS
MARKING	SEMFLEX INC. SW060 YYMM WO

TEMPER	ATURE SETTING	G (deg F)
Zone 1	Zone 2	Zone 3
690	710	718
Body	Tip/Die	Flange
760	760	745

Note: 1. Temp settings are nominal and can be adjusted (+/-10 deg F) based upon the quality of the melt flow.

- Adjust screw speed also if needed to get good melt quality.
- 2. Adjust tractor speed to attain target diameter.
- 3. Set jacket print on the Domino printer as per MGW64.
- 4. Refer to visual aid/samples provided for color match verification.
- 5. Refer to individual setup sheet created for more detailed setup and adjustments.

JACKET AND MARKING PROCESS

MACHINE:	REF. DOC	ITEM	PART NO.	DESCRIPTION		PRODUCT LINE	SEMFLEX
EXTRUDER LINE	MGW48	1	80013	Dupont FEP		DESCRIPTION	
DOMINO PRINTER	MGW64	2	80141	COLOR CONCENTRATE - DUSK	a bel group	SWO	060 WORK INSTRUCTIONS
	MGF89				DATE 3/12/2012		
					DRAWN BY J. Vidallon	SIZE ROHS	document WI-SW060
					REVISED 4/29/2019	Form# 1327 Rev. 1	SHET 4 OF 7

A. ELECTRICAL TEST:

1. CUT A 20FT SAMPLE FOR EVERY 1000FT OF FINISHED CABLE AND PERFORM FINAL TEST AS PER ETP 70307.

2. SAVE ELECTRICAL DATA IN THE ELECTRICAL TEST FOLDER.

B. MECHNICAL TEST:

1. CUT 3PCS OF 1FT SECTION OF FINISH CABLE PER LOT.

2. DISSECT AND VISUALLY INSPECT 1 OF THE 3 SAMPLES TO VERIFY LOCATION OF EACH LAYER.

3. MEASURE EACH LAYER AND FILL IN CABLE ACCEPTANCE TEST SHEET BELOW.

			Semflex Connectivity Solutions
	CABLE A	ACCEPTANCE TE	<u>st</u>
		PO#:	
PART NUMBER:		WORK ORDER #:	
DATE:		QUANTITY:	

PARAMETER	<u>REQUIREMENT</u>	MEASUREMENT
INNER SHIELD OD		
OUTER SHIELD OD		
JACKET COLOR & MARKING		
ELECTRICAL TEST		

INSPECTED BY:	
DATE:	

TESTING AND INSPECTION

cinch							
	DESCRIPTION SW060 WORK INSTRUCTIONS						
DATE 3/12/2012							
DRAWN BY J. Vidallon	size A	ROHS	П	DOCUMENT WI-SWO			
REVISED 4/29/2019	Form#	1327 Rev. 1			SHEET	5 OF	7

PACKAGING REQUIREMENTS:

1. PREPARE FOOTAGE SHEET (C-SHEET PER SPOOL).

2. ALL SHIPMENTS TO WASECA MUST INCLUDE A HARD COPY OF THE FINAL ELECTRICAL TEST, CABLE ACCEPTANCE TEST AND FOOTAGE SHEET.

ALL SALES ORDER SHIPMENTS MUST INCLUDE C-SHEETS ONLY UNLESS OTHERWISE REQ'D BY CUSTOMER.
VERIFY CUSTOMER PO/DRAWING FOR CONTINUOUS LENGTH AND PACKAGING REQ'T.

ADDITIONAL NOTES TO SHIPMENT TO ECM:

1.NO MORE THAN 250FT PER REEL.

2.IF THERE ARE TWO OR MORE LOT NUMBERS OF A CABLE IS BEING SHIPPED, THE LOTS MUST BE SPOOLED SEPARATELY.

3.INCLUDE CABLE ACCEPTANCE SHEET WITH ALL SHIPMENTS.

cinch	SEMFLEX								
		DESCRIPTION SW060 WORK INSTRUCTIONS							
DATE 3/12/2012									
DRAWN BY	SIZE	RoHS	DOCUMENT						
J. Vidallon	А	COMPLIAN	NT WI-SW060						
REVISED 4/29/2019	Form#	1327 Rev. 1	SHEET 6 OF 7						

REVISIONS								
DESCRIPTION	DATE	BY						
Initial Release	3/12/2012	J.Vidallon						
Replaced 80013 with 80259.	10/3/2012	J.Vidallon						
Update FEP extrusion temperature setup	11/13/2012	J.Vidallon						
Correction on center conductor OD from 0.012" to 0.011"	07/25/2013	J.Vidallon						
Change FB picks from 19 to 22 to prevent VSWR deterioration at the downstream processes.	2/11/2015	J.Vidallon						
Add notes on packaging for ECM	6/9/2015	J.Vidallon						
Add no re-spooling req't prior to RB.Change 80259 to 80013 for easier extrusion setup.	6/19/2018	J.Vidallon						
Correction on capacitance and delay	2/27/2019	J.Vidallon						
Add notes to specify 5% allowance on IL specs.	4/29/2019	J.Vidallon						

cinch		SEMFLEX						
	DESCRIPTION SW060 WORK INSTRUCTIONS							
DATE 3/12/2012	1							
DRAWN BY	SIZE	RoHS		DOCUMENT	-			
J. Vidallon	А	COMPLIAN	1T	WI-SW0	60			
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