COMPLETE PRODUCTION WORK ORDER PACKAGE

ROOT / MAIN: WO-2026-000136 SELECTED BOM: BOM-000010 / Rev.0

Contains full frozen details for MAIN + every nested Child BOM Work Order.
PDF Generated: 2026-11-20 00:26:47

WORK ORDER / BOM RELATIONSHIP INDEX

Level	Work Order	Parent	Parent Operation	Product / BOM	Qty	Status
MAIN	WO-2026-000136		ROOT	C1 1000 02X05BB5LYYGDC0Y | BOM-000010	1000 m	PLANNED
L1	WO-2026-000137	WO-2026-000136	10 OP090 Cabling / Lay-up	> S1001 01B5YLY070B5YYYA22 | BOM-000008	1015 m	PLANNED
L2	WO-2026-000138	WO-2026-000137	10 OP060 Insulation Extrusion	> > BCL5 U-S000-0027-0250A04Y | BOM-000006	1015 kg	PLANNED
L3	WO-2026-000139	WO-2026-000138	10 OP030 Bunching / Double Twist	> > > BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg	PLANNED
L4	WO-2026-000140	WO-2026-000139	10 OP020 Multiwire Drawing	> > > > BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg	PLANNED
L3	WO-2026-000141	WO-2026-000138	10 OP030 Bunching / Double Twist	> > > BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg	PLANNED
L4	WO-2026-000142	WO-2026-000141	10 OP020 Multiwire Drawing	> > > > BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg	PLANNED
L3	WO-2026-000143	WO-2026-000138	10 OP030 Bunching / Double Twist	> > > BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg	PLANNED
L4	WO-2026-000144	WO-2026-000143	10 OP020 Multiwire Drawing	> > > > BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg	PLANNED
L1	WO-2026-000145	WO-2026-000136	10 OP090 Cabling / Lay-up	> S1001 01B5YLY070B5YYYA22 | BOM-000008	1015 m	PLANNED
L2	WO-2026-000146	WO-2026-000145	10 OP060 Insulation Extrusion	> > BCL5 U-S000-0027-0250A04Y | BOM-000006	1015 kg	PLANNED
L3	WO-2026-000147	WO-2026-000146	10 OP030 Bunching / Double Twist	> > > BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg	PLANNED
L4	WO-2026-000148	WO-2026-000147	10 OP020 Multiwire Drawing	> > > > BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg	PLANNED
L3	WO-2026-000149	WO-2026-000146	10 OP030 Bunching / Double Twist	> > > BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg	PLANNED
L4	WO-2026-000150	WO-2026-000149	10 OP020 Multiwire Drawing	> > > > BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg	PLANNED
L3	WO-2026-000151	WO-2026-000146	10 OP030 Bunching / Double Twist	> > > BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg	PLANNED
L4	WO-2026-000152	WO-2026-000151	10 OP020 Multiwire Drawing	> > > > BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg	PLANNED

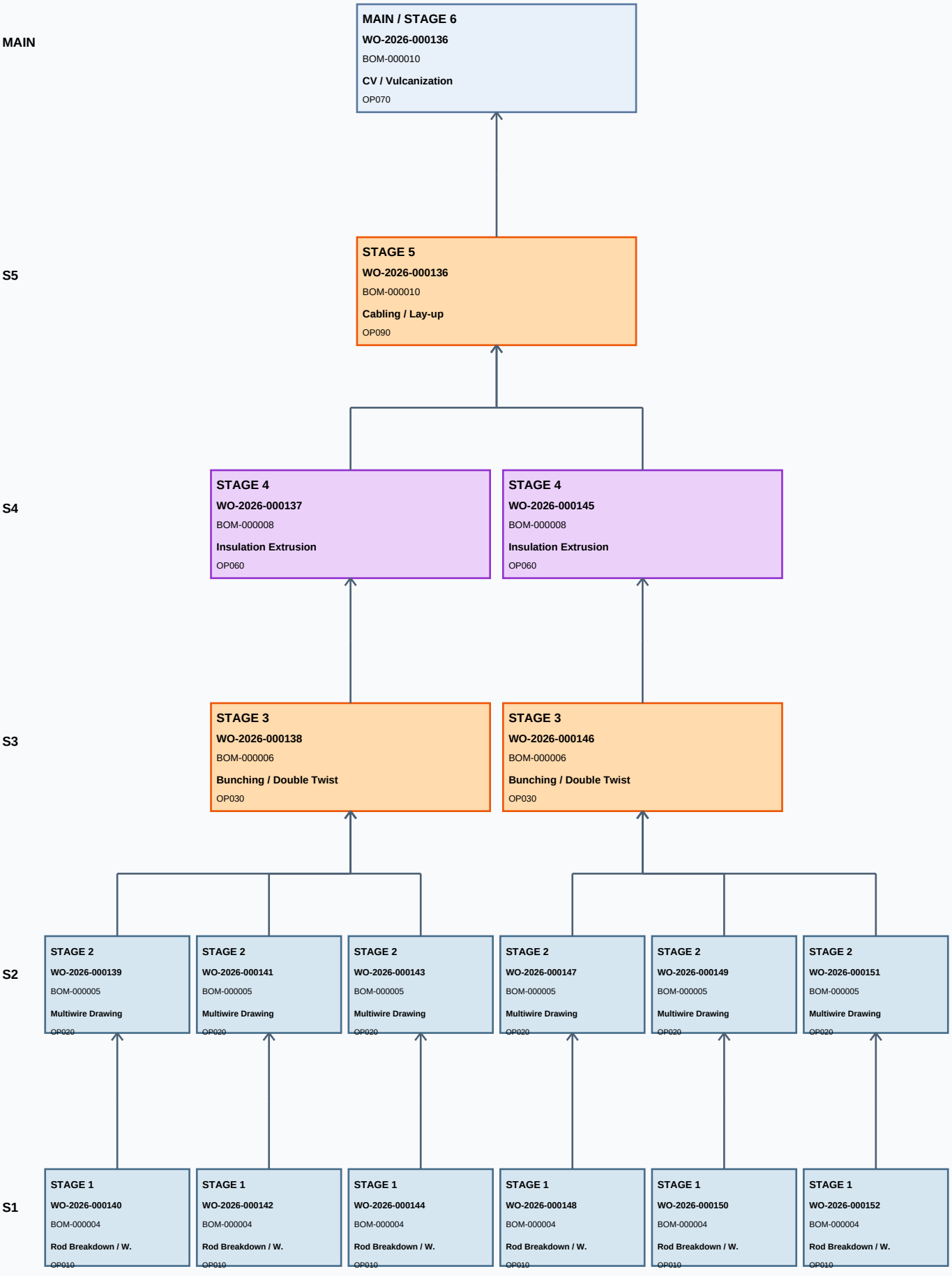
PRODUCTION / MANUFACTURING SEQUENCE - PRODUCE FROM DEEPEST CHILD TO MAIN

Prod Seq	Level	Work Order	Parent	Parent Operation	Product / BOM	Qty
1	L4	WO-2026-000140	WO-2026-000139	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg
1	L4	WO-2026-000142	WO-2026-000141	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg
1	L4	WO-2026-000144	WO-2026-000143	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg
1	L4	WO-2026-000148	WO-2026-000147	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg
1	L4	WO-2026-000150	WO-2026-000149	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg
1	L4	WO-2026-000152	WO-2026-000151	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	339.686633 kg
2	L3	WO-2026-000139	WO-2026-000138	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg
2	L3	WO-2026-000141	WO-2026-000138	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg
2	L3	WO-2026-000143	WO-2026-000138	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg
2	L3	WO-2026-000147	WO-2026-000146	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg
2	L3	WO-2026-000149	WO-2026-000146	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg
2	L3	WO-2026-000151	WO-2026-000146	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	338.3333 kg
3	L2	WO-2026-000138	WO-2026-000137	10 OP060 Insulation Extrusion	BCL5 U-S000-0027-0250A04Y | BOM-000006	1015 kg
3	L2	WO-2026-000146	WO-2026-000145	10 OP060 Insulation Extrusion	BCL5 U-S000-0027-0250A04Y | BOM-000006	1015 kg
4	L1	WO-2026-000137	WO-2026-000136	10 OP090 Cabling / Lay-up	S1001 01B5YLY070B5YYYA22 | BOM-000008	1015 m
4	L1	WO-2026-000145	WO-2026-000136	10 OP090 Cabling / Lay-up	S1001 01B5YLY070B5YYYA22 | BOM-000008	1015 m
5	MAIN	WO-2026-000136		FINAL / MAIN	C1 1000 02X05BB5LYYGDC0Y | BOM-000010	1000 m

1.	**Production Stage 1 = ALL Work Orders on the deepest hierarchy level. They may be produced in parallel.**
2.	**After every Work Order in a stage is completed, move one level upward to the next Production Stage.**
3.	**The MAIN Work Order is the final stage and starts after all required child/semi-finished stages are completed.**

VISUAL WORK ORDER / BOM HIERARCHY

Real operation flow: parallel BOM branches merge at the consuming process, then continue as ONE line.



OPERATION TYPE LEGEND

- CONDUCTOR / STRANDING
- CABLING / LAY-UP (BUKUM)
- INSULATION EXTRUSION
- PROCESS

Parallel inputs converge into ONE consuming operation. After the merge, the route continues as ONE process line. MAIN = actual final operation.

MAIN WORK ORDER **ROOT OF SELECTED BOM TREE**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000136

PRODUCT

C1 1000 02X05BB5LYYGDC0Y | H07RN-F 2X2.5 mm2

Qty: 1000 m Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:36

MAIN WO BARCODE

WO-2026-000136-MAIN-000137

WORK ORDER DETAILS

Selected BOM	BOM-000010 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	MAIN / L0	**Parent WO**	
Parent Operation	--	**Frozen Snapshot**	v1
Standard / Voltage	450/750	**Core / Section**	2 / 2.5 mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:36	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from Sales Order SO-2026-000003 / line 1 | Sales order cable

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000010 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000010 / Rev.0	**OP090 | Cabling / Lay-up**	F02-M03 | Rigid Strander	|
20	BOM-000010 / Rev.0	**OP070 | CV / Vulcanization**	F03-M08 | Outer Sheathing Line	|

OP 10 - OP090 | Cabling / Lay-up

BOM: BOM-000010 / Rev.0 Source Seq: 10

Machine: F02-M03 | Rigid Strander Work Centre: |

Speed: 144 m/min

Setup: 34324 min Scrap: 0%

WO-2026-000136-010-OP090-148

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1000 m	**m**	**144 m/min**	34324 min	131 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Lay Type	**234324**				
Lay Direction	**234324**				
Minimum Lay Length	**23432**	4324	234		
Nominal Lay Length					
Maximum Lay Length					
Lay Ratio			234		
Minimum Diameter					
Nominal Diameter					
Maximum Diameter					
Filler Cord Count					
Filler Cord Diameter					
Dummy Core Count					
Dummy Core Diameter					
Filler Cord Material					
Filler Cord Weight					
Yarn Material					

Yarn Weight					
Color and Number Sequence					
Process Type	**4324**				
Material Standard	**234**				
Color					
Color Masterbatch Ratio (%)				%	
Color Masterbatch Type					
Input Diameter					
Manufacturing Wall Thickness (mm)				mm	
Manufacturing Minimum Wall Thickness (mm)				mm	
Manufacturing Maximum Wall Thickness (mm)				mm	
Manufacturing Nominal Diameter (mm)				mm	
Manufacturing Minimum Diameter (mm)				mm	
Manufacturing Maximum Diameter (mm)	**234**		234	mm	
Standard Minimum Diameter					
Standard Maximum Diameter	**42**	4234			42334
Material Weight (kg/km)			4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed				m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Assembly OD				mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
S1001 01B5YLY070B5YYYA22 | Single | H07RN-F | - | 0.5 | Bare bunched class 5 | YOK | P-EPR | YOK | 0,7 | B | YOK | Y | YOK | NO CLOUR | EN 50525-2-21	BOM-000008 / Rev.0	1015 m	1015 m	**WO-2026-000137**	NEXT: WO-2026-000136 -> WO-2026-000137
S1001 01B5YLY070B5YYYA22 | Single | H07RN-F | - | 0.5 | Bare bunched class 5 | YOK | P-EPR | YOK | 0,7 | B | YOK | Y | YOK | NO CLOUR | EN 50525-2-21	BOM-000008 / Rev.0	1015 m	1015 m	**WO-2026-000145**	NEXT: WO-2026-000136 -> WO-2026-000145

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

OP 20 - OP070 | CV / Vulcanization

BOM: BOM-000010 / Rev.0 Source Seq: 20

Machine: F03-M08 | Outer Sheathing Line Work Centre: |

Speed: 45 m/min

Setup: 4545 min Scrap: 1%

WO-2026-000136-020-OP070-149

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1000 m	**1000 m**	**45 m/min**	4545 min	4545 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Process Type					
Material Standard					

Color					
Color Masterbatch Ratio (%)				%	
Color Masterbatch Type					
Catalyst Ratio (%)				%	
Insulation Input Diameter					
Nominal Wall Thickness (mm)				mm	
Minimum Point Wall Thickness (mm)				mm	
Maximum Point Wall Thickness (mm)				mm	
Manufacturing Nominal Diameter (mm)				mm	
Manufacturing Minimum Diameter (mm)				mm	
Manufacturing Maximum Diameter (mm)				mm	
Insulation Resistance (M?.km)				Mohm/km	
Standard Minimum Diameter					
Standard Maximum Diameter					
Material Weight (kg/km)				kg/km	
Insulation Marking					
Note					
Tensile Strength / Elongation Values					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Curing Pressure				bar	
Curing Temperature				?C	
Line Speed				m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Hot Set Elongation				%	

RAW MATERIALS / COMPONENTS - OP 20 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
CMP-RUB-002	CPE Rubber Sheathing Compound	100	**105**	kg		5%	

OP 20 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 1 **PARENT WO-2026-000136 / OP 10 OP090 Cabling / Lay-up**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000137

PRODUCT

S1001 01B5YLY070B5YYYA22 | Single |
H07RN-F | - | 0.5 | Bare bunched class 5 |
YOK | P-EPR | YOK | 0,7 | B | YOK | Y |
YOK | NO CLOUR | EN 50525-2-21
Qty: 1015 m Customer: TEST-CUST-001 | CableDataSheet Test Customer 01
WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000137-MAIN-000138

WORK ORDER DETAILS

Selected BOM	BOM-000008 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L1	**Parent WO**	WO-2026-000136
Parent Operation	10 | OP090 Cabling / Lay-up	**Frozen Snapshot**	v1
Standard / Voltage		**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000136 / OP 10 OP090

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000008 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000008 / Rev.0	**OP060 | Insulation Extrusion**	F02-M04 | XLPE Insulation Line	|

OP 10 - OP060 | Insulation Extrusion

BOM: BOM-000008 / Rev.0 Source Seq: 10
Machine: F02-M04 | XLPE Insulation Line Work Centre: |

Speed: 100 m/min
Setup: 45 min Scrap: 5%

WO-2026-000137-010-OP060-150

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1015 m	**1000 m**	**100 m/min**	45 min	23 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Process Type					
Material Standard					
Color					
Color Masterbatch Ratio (%)				%	
Color Masterbatch Type					
Catalyst Ratio (%)				%	
Anti-Rodent Additive Ratio (%)				%	
Anti-Termite Additive Ratio (%)				%	
Flame-Retardant Additive Ratio (%)				%	
Foaming Additive Ratio (%)				%	
Nominal Wall Thickness (mm)				mm	
Minimum Point Wall Thickness (mm)				mm	
Nominal Diameter (mm)				mm	
Minimum Diameter (mm)				mm	
Maximum Diameter (mm)				mm	
Manufacturing Wall Thickness (mm)				mm	
Manufacturing Minimum Wall Thickness (mm)				mm	

Manufacturing Maximum Wall Thickness (mm)				mm	
Material Weight (kg/km)				kg/km	
Manufacturing Nominal Diameter (mm)				mm	
Manufacturing Minimum Diameter (mm)				mm	
Manufacturing Maximum Diameter (mm)				mm	
Insulation Input Diameter					
Maximum Point Wall Thickness (mm)				mm	
Insulation Resistance (M?.km)				Mohm/km	
Standard Minimum Diameter					
Standard Maximum Diameter					
Insulation Marking					
Note					
Tensile Strength / Elongation Values					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Extruder Zone Temperatures				?C	
Head Temperature				?C	
Screw Speed				rpm	
Line Speed				m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Minimum Thickness				mm	
Spark Test Voltage				kV	
Insulated Core OD				mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL5 U-S000-0027-0250A04Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | Unilay concentric EU | S Left | 27 x 0.25 mm | Lay 16D | 1.5 mm2	BOM-000006 / Rev.0	1000 kg	1015 kg	**WO-2026-000138**	NEXT: WO-2026-000137 -> WO-2026-000138

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 2 **PARENT WO-2026-000137 / OP 10 OP060 Insulation Extrusion**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000138

PRODUCT

BCL5 U-S000-0027-0250A04Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
Unilay concentric EU | S Left | 27 x 0.25
mm | Lay 16D | 1.5 mm2
Qty: 1015 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01
WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000138-MAIN-000139

WORK ORDER DETAILS

Selected BOM	BOM-000006 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L2	**Parent WO**	WO-2026-000137
Parent Operation	10 | OP060 Insulation Extrusion	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000137 / OP 10 OP060

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000006 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000006 / Rev.0	**OP030 | Bunching / Double Twist**	F03-M05 | Cabling Machine	|

OP 10 - OP030 | Bunching / Double Twist

BOM: BOM-000006 / Rev.0 Source Seq: 10
Machine: F03-M05 | Cabling Machine Work Centre: |

Speed: 232323 m/min
Setup: 3434324 min Scrap: 55555%

WO-2026-000138-010-OP030-151

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1015 kg	**m**	**232323 m/min**	3434324 min	234324 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ADSAD**				
Construction	**SADSAD**				
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction					
Diameter					
Nominal Lay Length					
Maximum Lay Length					
Theoretical Conductor Resistance					
Maximum Conductor Resistance					
Maximum Standard Resistance					
Material Weight (kg/km)				kg/km	
Note	**AD**				
Lay Type					
Minimum Lay Length					
Lay Ratio					
Minimum Diameter					

Nominal Diameter					
Maximum Diameter					
Filler Cord Count					
Filler Cord Diameter					
Dummy Core Count					
Dummy Core Diameter					
Filler Cord Material					
Filler Cord Weight					
Yarn Material	**DASD**				
Yarn Weight					
Color and Number Sequence					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Bow / Rotor Speed				rpm	
Line Speed				m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor OD				mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL5 N-N000-0009-0250007Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2	BOM-000005 / Rev.0	333.3333 kg	338.3333 kg	**WO-2026-000139**	NEXT: WO-2026-000138 -> WO-2026-000139
BCL5 N-N000-0009-0250007Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2	BOM-000005 / Rev.0	333.3333 kg	338.3333 kg	**WO-2026-000141**	NEXT: WO-2026-000138 -> WO-2026-000141
BCL5 N-N000-0009-0250007Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2	BOM-000005 / Rev.0	333.3333 kg	338.3333 kg	**WO-2026-000143**	NEXT: WO-2026-000138 -> WO-2026-000143

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 3 **PARENT WO-2026-000138 / OP 10 OP030 Bunching / Double Twist**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000139

PRODUCT

BCL5 N-N000-0009-0250007Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2

Qty: 338.3333 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000139-MAIN-000140

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000138
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000138 / OP 10 OP030

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000005 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000005 / Rev.0	**OP020 | Multiwire Drawing**	F03-M02 | Fine Wire Drawing Machine	|

OP 10 - OP020 | Multiwire Drawing

BOM: BOM-000005 / Rev.0 Source Seq: 10

Machine: F03-M02 | Fine Wire Drawing Machine Work Centre: |

Speed: 33333 m/min

Setup: 545 min Scrap: 1%

WO-2026-000139-010-OP020-152

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		338.3333 kg	**m**	**33333 m/min**	545 min	30 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ERSDF**				
Construction	**DSF**				
Conductor Stranding Type					
Layer Diameters for Rolling	**4534**	4544			
Lay Direction					
Diameter		4	44		
Nominal Lay Length			44		
Maximum Lay Length					
Theoretical Conductor Resistance		44	6		
Maximum Conductor Resistance		4	4		
Maximum Standard Resistance					
Material Weight (kg/km)	**4**	4	4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed	**12**	8	15	m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Wire Diameter	**8768**	6767	6767	mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2	BOM-000004 / Rev.0	1004 kg	339.686633 kg	**WO-2026-000140**	NEXT: WO-2026-000139 -> WO-2026-000140

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 4 **PARENT WO-2026-000139 / OP 10 OP020 Multiwire Drawing**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000140

PRODUCT

BCL1 N-N000-0001-1250005Y | Bare Copper |
IEC | Round/Bunch | IEC 60228 Class 1 |
NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2

Qty: 339.686633 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000140-MAIN-000141

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L4	**Parent WO**	WO-2026-000139
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000139 / OP 10 OP020

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000004 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000004 / Rev.0	**OP010 | Rod Breakdown / Wire Drawing**	F03-M01 | Rod Breakdown Machine	|

OP 10 - OP010 | Rod Breakdown / Wire Drawing

BOM: BOM-000004 / Rev.0 Source Seq: 10

Machine: F03-M01 | Rod Breakdown Machine Work Centre: |

Speed: 4 m/min

Setup: 30 min Scrap: 1%

WO-2026-000140-010-OP010-153

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		339.686633 kg	**1000 kg**	**4 m/min**	30 min	15 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**copper**				
Construction					
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction	**33**				
Diameter	**33**	5	333		
Nominal Lay Length			33		
Maximum Lay Length	**3**		3		
Theoretical Conductor Resistance	**3**		3		
Maximum Conductor Resistance	**3**	3			
Maximum Standard Resistance	**3**		3		
Material Weight (kg/km)	**3**		3	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Inlet Diameter	**333**	33	33	mm	
Outlet Diameter	**3**	3		mm	

Line Speed	**3333**	33	3	m/min	
Annealer Current	**333**	3	33	A	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor Resistance	**33**	3	33	ohm/km	
Wire Diameter	**333333**	33333	3	mm	

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
BCL1 N-N000-0001-8000012Y	Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 8 mm | Lay NOT | 50 mm2	1000	**343.083499**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 3 **PARENT WO-2026-000138 / OP 10 OP030 Bunching / Double Twist**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000141

PRODUCT

BCL5 N-N000-0009-0250007Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2

Qty: 338.3333 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000141-MAIN-000142

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000138
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000138 / OP 10 OP030

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000005 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000005 / Rev.0	**OP020 | Multiwire Drawing**	F03-M02 | Fine Wire Drawing Machine	|

OP 10 - OP020 | Multiwire Drawing

BOM: BOM-000005 / Rev.0 Source Seq: 10

Machine: F03-M02 | Fine Wire Drawing Machine Work Centre: |

Speed: 33333 m/min

Setup: 545 min Scrap: 1%

WO-2026-000141-010-OP020-154

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		338.3333 kg	**m**	**33333 m/min**	545 min	30 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ERSDF**				
Construction	**DSF**				
Conductor Stranding Type					
Layer Diameters for Rolling	**4534**	4544			
Lay Direction					
Diameter		4	44		
Nominal Lay Length			44		
Maximum Lay Length					
Theoretical Conductor Resistance		44	6		
Maximum Conductor Resistance		4	4		
Maximum Standard Resistance					
Material Weight (kg/km)	**4**	4	4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed	**12**	8	15	m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Wire Diameter	**8768**	6767	6767	mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2	BOM-000004 / Rev.0	1004 kg	339.686633 kg	**WO-2026-000142**	NEXT: WO-2026-000141 -> WO-2026-000142

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 4 **PARENT WO-2026-000141 / OP 10 OP020 Multiwire Drawing**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000142

PRODUCT

BCL1 N-N000-0001-1250005Y | Bare Copper |
IEC | Round/Bunch | IEC 60228 Class 1 |
NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2

Qty: 339.686633 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000142-MAIN-000143

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L4	**Parent WO**	WO-2026-000141
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000141 / OP 10 OP020

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000004 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000004 / Rev.0	**OP010 | Rod Breakdown / Wire Drawing**	F03-M01 | Rod Breakdown Machine	|

OP 10 - OP010 | Rod Breakdown / Wire Drawing

BOM: BOM-000004 / Rev.0 Source Seq: 10

Machine: F03-M01 | Rod Breakdown Machine Work Centre: |

Speed: 4 m/min

Setup: 30 min Scrap: 1%

WO-2026-000142-010-OP010-155

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		339.686633 kg	**1000 kg**	**4 m/min**	30 min	15 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**copper**				
Construction					
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction	**33**				
Diameter	**33**	5	333		
Nominal Lay Length			33		
Maximum Lay Length	**3**		3		
Theoretical Conductor Resistance	**3**		3		
Maximum Conductor Resistance	**3**	3			
Maximum Standard Resistance	**3**		3		
Material Weight (kg/km)	**3**		3	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Inlet Diameter	**333**	33	33	mm	
Outlet Diameter	**3**	3		mm	

Line Speed	**3333**	33	3	m/min	
Annealer Current	**333**	3	33	A	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor Resistance	**33**	3	33	ohm/km	
Wire Diameter	**333333**	33333	3	mm	

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
BCL1 N-N000-0001-8000012Y	Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 8 mm | Lay NOT | 50 mm2	1000	**343.083499**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 3 **PARENT WO-2026-000138 / OP 10 OP030 Bunching / Double Twist**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000143

PRODUCT

BCL5 N-N000-0009-0250007Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2

Qty: 338.3333 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000143-MAIN-000144

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000138
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000138 / OP 10 OP030

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000005 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000005 / Rev.0	**OP020 | Multiwire Drawing**	F03-M02 | Fine Wire Drawing Machine	|

OP 10 - OP020 | Multiwire Drawing

BOM: BOM-000005 / Rev.0 Source Seq: 10

Machine: F03-M02 | Fine Wire Drawing Machine Work Centre: |

Speed: 33333 m/min

Setup: 545 min Scrap: 1%

WO-2026-000143-010-OP020-156

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		338.3333 kg	**m**	**33333 m/min**	545 min	30 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ERSDF**				
Construction	**DSF**				
Conductor Stranding Type					
Layer Diameters for Rolling	**4534**	4544			
Lay Direction					
Diameter		4	44		
Nominal Lay Length			44		
Maximum Lay Length					
Theoretical Conductor Resistance		44	6		
Maximum Conductor Resistance		4	4		
Maximum Standard Resistance					
Material Weight (kg/km)	**4**	4	4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed	**12**	8	15	m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Wire Diameter	**8768**	6767	6767	mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2	BOM-000004 / Rev.0	1004 kg	339.686633 kg	**WO-2026-000144**	NEXT: WO-2026-000143 -> WO-2026-000144

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 4 **PARENT WO-2026-000143 / OP 10 OP020 Multiwire Drawing**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000144

PRODUCT

BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2

Qty: 339.686633 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:37

MAIN WO BARCODE

WO-2026-000144-MAIN-000145

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L4	**Parent WO**	WO-2026-000143
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:37	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000143 / OP 10 OP020

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000004 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000004 / Rev.0	**OP010 | Rod Breakdown / Wire Drawing**	F03-M01 | Rod Breakdown Machine	|

OP 10 - OP010 | Rod Breakdown / Wire Drawing

BOM: BOM-000004 / Rev.0 Source Seq: 10

Machine: F03-M01 | Rod Breakdown Machine Work Centre: |

Speed: 4 m/min

Setup: 30 min Scrap: 1%

WO-2026-000144-010-OP010-157

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		339.686633 kg	**1000 kg**	**4 m/min**	30 min	15 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**copper**				
Construction					
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction	**33**				
Diameter	**33**	5	333		
Nominal Lay Length			33		
Maximum Lay Length	**3**		3		
Theoretical Conductor Resistance	**3**		3		
Maximum Conductor Resistance	**3**	3			
Maximum Standard Resistance	**3**		3		
Material Weight (kg/km)	**3**		3	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Inlet Diameter	**333**	33	33	mm	
Outlet Diameter	**3**	3		mm	

Line Speed	**3333**	33	3	m/min	
Annealer Current	**333**	3	33	A	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor Resistance	**33**	3	33	ohm/km	
Wire Diameter	**333333**	33333	3	mm	

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
BCL1 N-N000-0001-8000012Y	Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 8 mm | Lay NOT | 50 mm2	1000	**343.083499**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 1 **PARENT WO-2026-000136 / OP 10 OP090 Cabling / Lay-up**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000145

PRODUCT

S1001 01B5YLY070B5YYYA22 | Single |
H07RN-F | - | 0.5 | Bare bunched class 5 |
YOK | P-EPR | YOK | 0,7 | B | YOK | Y |
YOK | NO CLOUR | EN 50525-2-21

Qty: 1015 m Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000145-MAIN-000146

WORK ORDER DETAILS

Selected BOM	BOM-000008 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L1	**Parent WO**	WO-2026-000136
Parent Operation	10 | OP090 Cabling / Lay-up	**Frozen Snapshot**	v1
Standard / Voltage		**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000136 / OP 10 OP090

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000008 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000008 / Rev.0	**OP060 | Insulation Extrusion**	F02-M04 | XLPE Insulation Line	|

OP 10 - OP060 | Insulation Extrusion

BOM: BOM-000008 / Rev.0 Source Seq: 10

Machine: F02-M04 | XLPE Insulation Line Work Centre: |

Speed: 100 m/min

Setup: 45 min Scrap: 5%

WO-2026-000145-010-OP060-158

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1015 m	**1000 m**	**100 m/min**	45 min	23 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Process Type					
Material Standard					
Color					
Color Masterbatch Ratio (%)				%	
Color Masterbatch Type					
Catalyst Ratio (%)				%	
Anti-Rodent Additive Ratio (%)				%	
Anti-Termite Additive Ratio (%)				%	
Flame-Retardant Additive Ratio (%)				%	
Foaming Additive Ratio (%)				%	
Nominal Wall Thickness (mm)				mm	
Minimum Point Wall Thickness (mm)				mm	
Nominal Diameter (mm)				mm	
Minimum Diameter (mm)				mm	
Maximum Diameter (mm)				mm	
Manufacturing Wall Thickness (mm)				mm	
Manufacturing Minimum Wall Thickness (mm)				mm	

Manufacturing Maximum Wall Thickness (mm)				mm	
Material Weight (kg/km)				kg/km	
Manufacturing Nominal Diameter (mm)				mm	
Manufacturing Minimum Diameter (mm)				mm	
Manufacturing Maximum Diameter (mm)				mm	
Insulation Input Diameter					
Maximum Point Wall Thickness (mm)				mm	
Insulation Resistance (M?.km)				Mohm/km	
Standard Minimum Diameter					
Standard Maximum Diameter					
Insulation Marking					
Note					
Tensile Strength / Elongation Values					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Extruder Zone Temperatures				?C	
Head Temperature				?C	
Screw Speed				rpm	
Line Speed				m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Minimum Thickness				mm	
Spark Test Voltage				kV	
Insulated Core OD				mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL5 U-S000-0027-0250A04Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | Unilay concentric EU | S Left | 27 x 0.25 mm | Lay 16D | 1.5 mm2	BOM-000006 / Rev.0	1000 kg	1015 kg	**WO-2026-000146**	NEXT: WO-2026-000145 -> WO-2026-000146

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 2 **PARENT WO-2026-000145 / OP 10 OP060 Insulation Extrusion**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000146

PRODUCT

BCL5 U-S000-0027-0250A04Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
Unilay concentric EU | S Left | 27 x 0.25
mm | Lay 16D | 1.5 mm2
Qty: 1015 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01
WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000146-MAIN-000147

WORK ORDER DETAILS

Selected BOM	BOM-000006 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L2	**Parent WO**	WO-2026-000145
Parent Operation	10 | OP060 Insulation Extrusion	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000145 / OP 10 OP060

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000006 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000006 / Rev.0	**OP030 | Bunching / Double Twist**	F03-M05 | Cabling Machine	|

OP 10 - OP030 | Bunching / Double Twist

BOM: BOM-000006 / Rev.0 Source Seq: 10
Machine: F03-M05 | Cabling Machine Work Centre: |

Speed: 232323 m/min
Setup: 3434324 min Scrap: 55555%

WO-2026-000146-010-OP030-159

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1015 kg	**m**	**232323 m/min**	3434324 min	234324 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ADSAD**				
Construction	**SADSAD**				
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction					
Diameter					
Nominal Lay Length					
Maximum Lay Length					
Theoretical Conductor Resistance					
Maximum Conductor Resistance					
Maximum Standard Resistance					
Material Weight (kg/km)				kg/km	
Note	**AD**				
Lay Type					
Minimum Lay Length					
Lay Ratio					
Minimum Diameter					

Nominal Diameter					
Maximum Diameter					
Filler Cord Count					
Filler Cord Diameter					
Dummy Core Count					
Dummy Core Diameter					
Filler Cord Material					
Filler Cord Weight					
Yarn Material	**DASD**				
Yarn Weight					
Color and Number Sequence					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Bow / Rotor Speed				rpm	
Line Speed				m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor OD				mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL5 N-N000-0009-0250007Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2	BOM-000005 / Rev.0	333.3333 kg	338.3333 kg	**WO-2026-000147**	NEXT: WO-2026-000146 -> WO-2026-000147
BCL5 N-N000-0009-0250007Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2	BOM-000005 / Rev.0	333.3333 kg	338.3333 kg	**WO-2026-000149**	NEXT: WO-2026-000146 -> WO-2026-000149
BCL5 N-N000-0009-0250007Y | Bare Copper | IEC | Round/Bunch | IEC 60028 Class 5 | NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2	BOM-000005 / Rev.0	333.3333 kg	338.3333 kg	**WO-2026-000151**	NEXT: WO-2026-000146 -> WO-2026-000151

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 3 **PARENT WO-2026-000146 / OP 10 OP030 Bunching / Double Twist**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000147

PRODUCT

BCL5 N-N000-0009-0250007Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2

Qty: 338.3333 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000147-MAIN-000148

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000146
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000146 / OP 10 OP030

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000005 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000005 / Rev.0	**OP020 | Multiwire Drawing**	F03-M02 | Fine Wire Drawing Machine	|

OP 10 - OP020 | Multiwire Drawing

BOM: BOM-000005 / Rev.0 Source Seq: 10

Machine: F03-M02 | Fine Wire Drawing Machine Work Centre: |

Speed: 33333 m/min

Setup: 545 min Scrap: 1%

WO-2026-000147-010-OP020-160

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		338.3333 kg	**m**	**33333 m/min**	545 min	30 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ERSDF**				
Construction	**DSF**				
Conductor Stranding Type					
Layer Diameters for Rolling	**4534**	4544			
Lay Direction					
Diameter		4	44		
Nominal Lay Length			44		
Maximum Lay Length					
Theoretical Conductor Resistance		44	6		
Maximum Conductor Resistance		4	4		
Maximum Standard Resistance					
Material Weight (kg/km)	**4**	4	4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed	**12**	8	15	m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Wire Diameter	**8768**	6767	6767	mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2	BOM-000004 / Rev.0	1004 kg	339.686633 kg	**WO-2026-000148**	NEXT: WO-2026-000147 -> WO-2026-000148

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 4 **PARENT WO-2026-000147 / OP 10 OP020 Multiwire Drawing**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000148

PRODUCT

BCL1 N-N000-0001-1250005Y | Bare Copper |
IEC | Round/Bunch | IEC 60228 Class 1 |
NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2

Qty: 339.686633 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000148-MAIN-000149

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L4	**Parent WO**	WO-2026-000147
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000147 / OP 10 OP020

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000004 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000004 / Rev.0	**OP010 | Rod Breakdown / Wire Drawing**	F03-M01 | Rod Breakdown Machine	|

OP 10 - OP010 | Rod Breakdown / Wire Drawing

BOM: BOM-000004 / Rev.0 Source Seq: 10

Machine: F03-M01 | Rod Breakdown Machine Work Centre: |

Speed: 4 m/min

Setup: 30 min Scrap: 1%

WO-2026-000148-010-OP010-161

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		339.686633 kg	**1000 kg**	**4 m/min**	30 min	15 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**copper**				
Construction					
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction	**33**				
Diameter	**33**	5	333		
Nominal Lay Length			33		
Maximum Lay Length	**3**		3		
Theoretical Conductor Resistance	**3**		3		
Maximum Conductor Resistance	**3**	3			
Maximum Standard Resistance	**3**		3		
Material Weight (kg/km)	**3**		3	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Inlet Diameter	**333**	33	33	mm	
Outlet Diameter	**3**	3		mm	

Line Speed	**3333**	33	3	m/min	
Annealer Current	**333**	3	33	A	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor Resistance	**33**	3	33	ohm/km	
Wire Diameter	**333333**	33333	3	mm	

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
BCL1 N-N000-0001-8000012Y	Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 8 mm | Lay NOT | 50 mm2	1000	**343.083499**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 3 **PARENT WO-2026-000146 / OP 10 OP030 Bunching / Double Twist**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000149

PRODUCT

BCL5 N-N000-0009-0250007Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2

Qty: 338.3333 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000149-MAIN-000150

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000146
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000146 / OP 10 OP030

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000005 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000005 / Rev.0	**OP020 | Multiwire Drawing**	F03-M02 | Fine Wire Drawing Machine	|

OP 10 - OP020 | Multiwire Drawing

BOM: BOM-000005 / Rev.0 Source Seq: 10

Machine: F03-M02 | Fine Wire Drawing Machine Work Centre: |

Speed: 33333 m/min

Setup: 545 min Scrap: 1%

WO-2026-000149-010-OP020-162

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		338.3333 kg	**m**	**33333 m/min**	545 min	30 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ERSDF**				
Construction	**DSF**				
Conductor Stranding Type					
Layer Diameters for Rolling	**4534**	4544			
Lay Direction					
Diameter		4	44		
Nominal Lay Length			44		
Maximum Lay Length					
Theoretical Conductor Resistance		44	6		
Maximum Conductor Resistance		4	4		
Maximum Standard Resistance					
Material Weight (kg/km)	**4**	4	4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed	**12**	8	15	m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Wire Diameter	**8768**	6767	6767	mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2	BOM-000004 / Rev.0	1004 kg	339.686633 kg	**WO-2026-000150**	NEXT: WO-2026-000149 -> WO-2026-000150

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 4 **PARENT WO-2026-000149 / OP 10 OP020 Multiwire Drawing**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000150

PRODUCT

BCL1 N-N000-0001-1250005Y | Bare Copper |
IEC | Round/Bunch | IEC 60228 Class 1 |
NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2

Qty: 339.686633 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000150-MAIN-000151

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L4	**Parent WO**	WO-2026-000149
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000149 / OP 10 OP020

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000004 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000004 / Rev.0	**OP010 | Rod Breakdown / Wire Drawing**	F03-M01 | Rod Breakdown Machine	|

OP 10 - OP010 | Rod Breakdown / Wire Drawing

BOM: BOM-000004 / Rev.0 Source Seq: 10

Machine: F03-M01 | Rod Breakdown Machine Work Centre: |

Speed: 4 m/min

Setup: 30 min Scrap: 1%

WO-2026-000150-010-OP010-163

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		339.686633 kg	**1000 kg**	**4 m/min**	30 min	15 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**copper**				
Construction					
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction	**33**				
Diameter	**33**	5	333		
Nominal Lay Length			33		
Maximum Lay Length	**3**		3		
Theoretical Conductor Resistance	**3**		3		
Maximum Conductor Resistance	**3**	3			
Maximum Standard Resistance	**3**		3		
Material Weight (kg/km)	**3**		3	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Inlet Diameter	**333**	33	33	mm	
Outlet Diameter	**3**	3		mm	

Line Speed	**3333**	33	3	m/min	
Annealer Current	**333**	3	33	A	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor Resistance	**33**	3	33	ohm/km	
Wire Diameter	**333333**	33333	3	mm	

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
BCL1 N-N000-0001-8000012Y	Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 8 mm | Lay NOT | 50 mm2	1000	**343.083499**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 3 **PARENT WO-2026-000146 / OP 10 OP030 Bunching / Double Twist**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000151

PRODUCT

BCL5 N-N000-0009-0250007Y | Bare Copper |
IEC | Round/Bunch | IEC 60028 Class 5 |
NOT | NOT | 9 x 0.25 mm | Lay NOT | 6 mm2

Qty: 338.3333 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000151-MAIN-000152

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000146
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000146 / OP 10 OP030

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000005 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000005 / Rev.0	**OP020 | Multiwire Drawing**	F03-M02 | Fine Wire Drawing Machine	|

OP 10 - OP020 | Multiwire Drawing

BOM: BOM-000005 / Rev.0 Source Seq: 10

Machine: F03-M02 | Fine Wire Drawing Machine Work Centre: |

Speed: 33333 m/min

Setup: 545 min Scrap: 1%

WO-2026-000151-010-OP020-164

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		338.3333 kg	**m**	**33333 m/min**	545 min	30 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**ERSDF**				
Construction	**DSF**				
Conductor Stranding Type					
Layer Diameters for Rolling	**4534**	4544			
Lay Direction					
Diameter		4	44		
Nominal Lay Length			44		
Maximum Lay Length					
Theoretical Conductor Resistance		44	6		
Maximum Conductor Resistance		4	4		
Maximum Standard Resistance					
Material Weight (kg/km)	**4**	4	4	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Line Speed	**12**	8	15	m/min	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Wire Diameter	**8768**	6767	6767	mm	

CHILD BOM / NEXT WORK ORDER(S) FROM THIS OPERATION

Child Product	Child BOM	Qty/Output	WO Required	Generated Child WO	Relationship
BCL1 N-N000-0001-1250005Y | Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2	BOM-000004 / Rev.0	1004 kg	339.686633 kg	**WO-2026-000152**	NEXT: WO-2026-000151 -> WO-2026-000152

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
-	No material line stored for this operation.						

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign

CHILD WORK ORDER - LEVEL 4 **PARENT WO-2026-000151 / OP 10 OP020 Multiwire Drawing**

THIS SECTION CONTAINS THE COMPLETE FROZEN BOM / ROUTING / PARAMETERS / MATERIALS FOR THIS WORK ORDER.

PRODUCTION WORK ORDER
WO-2026-000152

PRODUCT

BCL1 N-N000-0001-1250005Y | Bare Copper |
IEC | Round/Bunch | IEC 60228 Class 1 |
NOT | NOT | 1 x 1.25 mm | Lay NOT | 2.5 mm2

Qty: 339.686633 kg Customer: TEST-CUST-001 | CableDataSheet Test Customer 01

WO Date/Time: 2026-10-04 18:36:38

MAIN WO BARCODE

WO-2026-000152-MAIN-000153

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L4	**Parent WO**	WO-2026-000151
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory	F03 | Alexandria Marine Cable Plant	**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 18:36:38	**PDF Generated Date / Time**	2026-11-20 00:26:47

WORK ORDER NOTES

Generated from parent WO-2026-000151 / OP 10 OP020

THIS WORK ORDER - PRODUCT TREE / BOM SEQUENCE

1.	**BOM-000004 / Rev.0**

THIS WORK ORDER - ROUTING / OPERATION SEQUENCE

WO Seq	Source BOM	Operation	Machine	Work Centre
10	BOM-000004 / Rev.0	**OP010 | Rod Breakdown / Wire Drawing**	F03-M01 | Rod Breakdown Machine	|

OP 10 - OP010 | Rod Breakdown / Wire Drawing

BOM: BOM-000004 / Rev.0 Source Seq: 10

Machine: F03-M01 | Rod Breakdown Machine Work Centre: |

Speed: 4 m/min

Setup: 30 min Scrap: 1%

WO-2026-000152-010-OP010-165

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		339.686633 kg	**1000 kg**	**4 m/min**	30 min	15 min	

TECHNICAL / ENGINEERING PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Material Type	**copper**				
Construction					
Conductor Stranding Type					
Layer Diameters for Rolling					
Lay Direction	**33**				
Diameter	**33**	5	333		
Nominal Lay Length			33		
Maximum Lay Length	**3**		3		
Theoretical Conductor Resistance	**3**		3		
Maximum Conductor Resistance	**3**	3			
Maximum Standard Resistance	**3**		3		
Material Weight (kg/km)	**3**		3	kg/km	
Note					

PRODUCTION PROCESS PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Inlet Diameter	**333**	33	33	mm	
Outlet Diameter	**3**	3		mm	

Line Speed	**3333**	33	3	m/min	
Annealer Current	**333**	3	33	A	

QUALITY / TEST PARAMETERS

Parameter	Required / Target	Min	Max	Unit	Remarks
Conductor Resistance	**33**	3	33	ohm/km	
Wire Diameter	**333333**	33333	3	mm	

RAW MATERIALS / COMPONENTS - OP 10 ONLY

Material Code	Material Name	BOM Qty	WO Required	Unit	Role	Scrap %	Notes
BCL1 N-N000-0001-8000012Y	Bare Copper | IEC | Round/Bunch | IEC 60228 Class 1 | NOT | NOT | 1 x 8 mm | Lay NOT | 50 mm2	1000	**343.083499**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

Operator / Sign	Actual Start / Stop	Actual Output / Scrap	QC / Supervisor / Sign