COMPLETE PRODUCTION WORK ORDER PACKAGE

ROOT / MAIN: WO-2026-000060 SELECTED BOM: BOM-000008 / Rev.0

Contains full frozen details for MAIN + every nested Child BOM Work Order.
PDF Generated: 2026-11-20 03:02:53

WORK ORDER / BOM RELATIONSHIP INDEX

Level	Work Order	Parent	Parent Operation	Product / BOM	Qty	Status
MAIN	**WO-2026-000060**		ROOT	S1001 01B5YLY070B5YYYA22 | BOM-000008	1000 m	PLANNED
L1	**WO-2026-000061**	WO-2026-000060	10 OP060 Insulation Extrusion	> BCL5 U-S000-0027-0250A04Y | BOM-000006	1000 kg	PLANNED
L2	**WO-2026-000062**	WO-2026-000061	10 OP030 Bunching / Double Twist	> > BCL5 N-N000-0009-0250007Y | BOM-00000	333.3333 kg	PLANNED
L3	**WO-2026-000063**	WO-2026-000062	10 OP020 Multiwire Drawing	> > > BCL1 N-N000-0001-1250005Y | BOM-000004	334.666633 kg	PLANNED
L2	**WO-2026-000064**	WO-2026-000061	10 OP030 Bunching / Double Twist	> > BCL5 N-N000-0009-0250007Y | BOM-00000	333.3333 kg	PLANNED
L3	**WO-2026-000065**	WO-2026-000064	10 OP020 Multiwire Drawing	> > > BCL1 N-N000-0001-1250005Y | BOM-000004	334.666633 kg	PLANNED
L2	**WO-2026-000066**	WO-2026-000061	10 OP030 Bunching / Double Twist	> > BCL5 N-N000-0009-0250007Y | BOM-00000	333.3333 kg	PLANNED
L3	**WO-2026-000067**	WO-2026-000066	10 OP020 Multiwire Drawing	> > > BCL1 N-N000-0001-1250005Y | BOM-000004	334.666633 kg	PLANNED

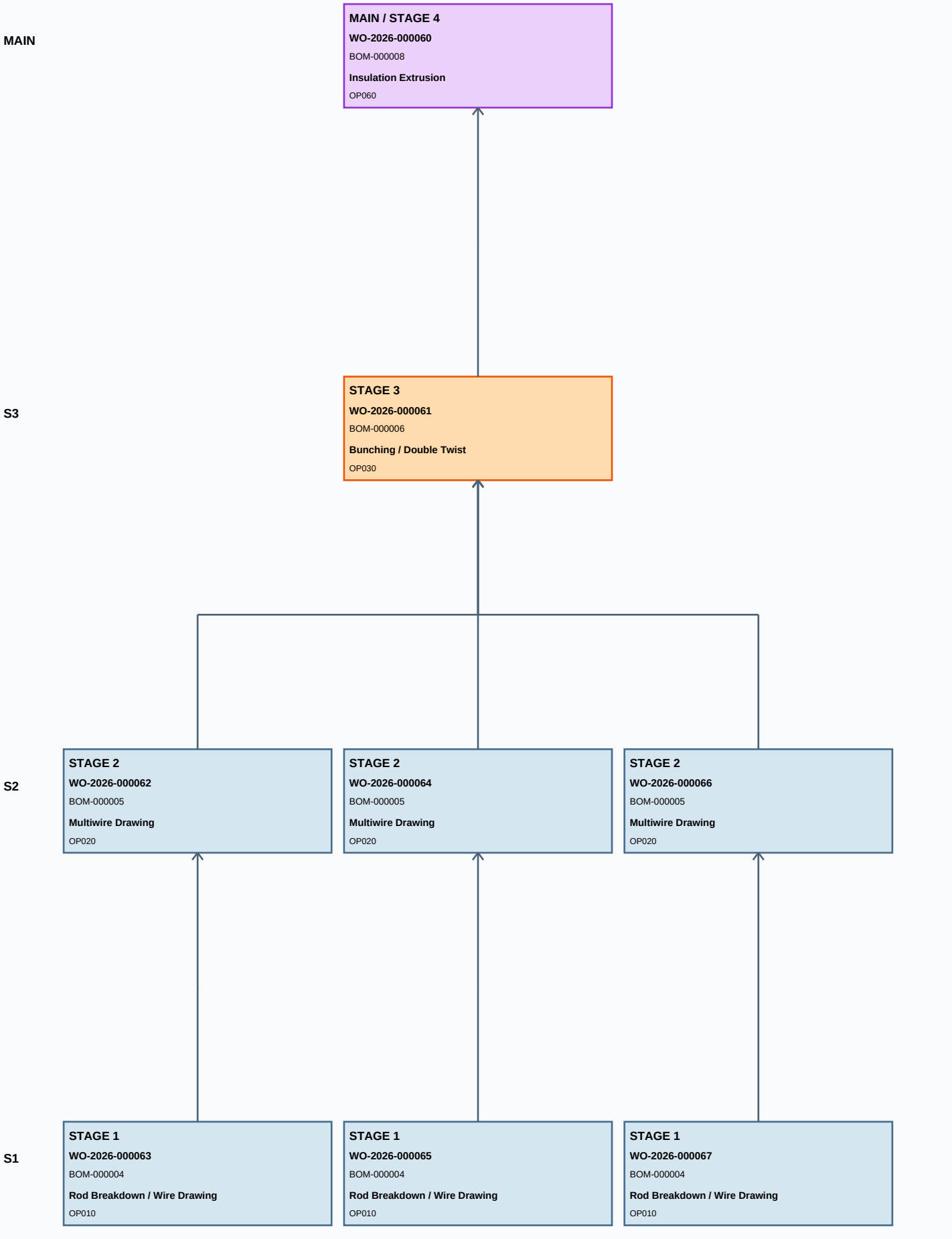
PRODUCTION / MANUFACTURING SEQUENCE - PRODUCE FROM DEEPEST CHILD TO MAIN

Prod Seq	Level	Work Order	Parent	Parent Operation	Product / BOM	Qty
1	L3	**WO-2026-000063**	WO-2026-000062	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	334.666633 kg
1	L3	**WO-2026-000065**	WO-2026-000064	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	334.666633 kg
1	L3	**WO-2026-000067**	WO-2026-000066	10 OP020 Multiwire Drawing	BCL1 N-N000-0001-1250005Y | BOM-000004	334.666633 kg
2	L2	**WO-2026-000062**	WO-2026-000061	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	333.3333 kg
2	L2	**WO-2026-000064**	WO-2026-000061	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	333.3333 kg
2	L2	**WO-2026-000066**	WO-2026-000061	10 OP030 Bunching / Double Twist	BCL5 N-N000-0009-0250007Y | BOM-000005	333.3333 kg
3	L1	**WO-2026-000061**	WO-2026-000060	10 OP060 Insulation Extrusion	BCL5 U-S000-0027-0250A04Y | BOM-000006	1000 kg
4	MAIN	**WO-2026-000060**		FINAL / MAIN	S1001 01B5YLY070B5YYYA22 | BOM-000008	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

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-2026-000060

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: 1000 m Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000060-MAIN-000061

WORK ORDER DETAILS

Selected BOM	BOM-000008 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	MAIN / L0	**Parent WO**	
Parent Operation	--	**Frozen Snapshot**	v1
Standard / Voltage		**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

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-2026-000060-010-OP060-68

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1000 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	1000 kg	**WO-2026-000061**	NEXT: WO-2026-000060 -> WO-2026-000061

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 1 **PARENT WO-2026-000060 / OP 10 OP060 Insulation Extrusion**

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

PRODUCTION WORK ORDER
WO-2026-000061

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: 1000 kg Customer: |
WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000061-MAIN-000062

WORK ORDER DETAILS

Selected BOM	BOM-000006 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L1	**Parent WO**	WO-2026-000060
Parent Operation	10 | OP060 Insulation Extrusion	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000060 / 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-2026-000061-010-OP030-69

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		1000 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	333.3333 kg	**WO-2026-000062**	NEXT: WO-2026-000061 -> WO-2026-000062
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	333.3333 kg	**WO-2026-000064**	NEXT: WO-2026-000061 -> WO-2026-000064
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	333.3333 kg	**WO-2026-000066**	NEXT: WO-2026-000061 -> WO-2026-000066

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-2026-000061 / OP 10 OP030 Bunching / Double Twist**

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

PRODUCTION WORK ORDER
WO-2026-000062

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: 333.3333 kg Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000062-MAIN-000063

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L2	**Parent WO**	WO-2026-000061
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000061 / 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-2026-000062-010-OP020-70

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		333.3333 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	334.666633 kg	**WO-2026-000063**	NEXT: WO-2026-000062 -> WO-2026-000063

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-2026-000062 / OP 10 OP020 Multiwire Drawing**

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

PRODUCTION WORK ORDER
WO-2026-000063

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: 334.666633 kg Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000063-MAIN-000064

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000062
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000062 / 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-2026-000063-010-OP010-71

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		334.666633 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	**338.013299**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

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

CHILD WORK ORDER - LEVEL 2 **PARENT WO-2026-000061 / OP 10 OP030 Bunching / Double Twist**

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

PRODUCTION WORK ORDER
WO-2026-000064

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: 333.3333 kg Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000064-MAIN-000065

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L2	**Parent WO**	WO-2026-000061
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000061 / 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-2026-000064-010-OP020-72

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		333.3333 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	334.666633 kg	**WO-2026-000065**	NEXT: WO-2026-000064 -> WO-2026-000065

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-2026-000064 / OP 10 OP020 Multiwire Drawing**

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

PRODUCTION WORK ORDER
WO-2026-000065

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: 334.666633 kg Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000065-MAIN-000066

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000064
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000064 / 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-2026-000065-010-OP010-73

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		334.666633 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	**338.013299**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

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

CHILD WORK ORDER - LEVEL 2 **PARENT WO-2026-000061 / OP 10 OP030 Bunching / Double Twist**

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

PRODUCTION WORK ORDER
WO-2026-000066

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: 333.3333 kg Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000066-MAIN-000067

WORK ORDER DETAILS

Selected BOM	BOM-000005 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L2	**Parent WO**	WO-2026-000061
Parent Operation	10 | OP030 Bunching / Double Twist	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000061 / 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-2026-000066-010-OP020-74

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		333.3333 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	334.666633 kg	**WO-2026-000067**	NEXT: WO-2026-000066 -> WO-2026-000067

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-2026-000066 / OP 10 OP020 Multiwire Drawing**

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

PRODUCTION WORK ORDER
WO-2026-000067

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: 334.666633 kg Customer: |

WO Date/Time: 2026-10-04 14:14:56

MAIN WO BARCODE

WO-2026-000067-MAIN-000068

WORK ORDER DETAILS

Selected BOM	BOM-000004 / Rev.0	**Status / Priority**	PLANNED / NORMAL
WO Role / Level	CHILD / L3	**Parent WO**	WO-2026-000066
Parent Operation	10 | OP020 Multiwire Drawing	**Frozen Snapshot**	v1
Standard / Voltage	IEC	**Core / Section**	mm2
Factory		**Department**	
Work Centre		**Responsible**	
Order / Due	2026-10-04	**Planned Start**	
WO Created Date / Time	2026-10-04 14:14:56	**PDF Generated Date / Time**	2026-11-20 03:02:53

WORK ORDER NOTES

Generated from parent WO-2026-000066 / 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-2026-000067-010-OP010-75

PLANNED PRODUCTION

Start	Finish	Input Qty	Output Qty	Speed	Setup	Duration	Semi-Finished Output
		334.666633 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	**338.013299**	kg		1%	

OP 10 - OPERATOR / QC SIGN-OFF

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