APsystems DS&QS&QT&ECU(LATAM) Accessories

Rev 2.1

ALTENERGY POWER SYSTEM Inc.
latam.APsystems.com

APsystems LATAM:
Av. Lázaro Cárdenas #3422 int 604, Col. Chapalita., Zapopan, Jalisco. C.P. 45040. México
Mail: info.latam@APsystems.com

© All Rights Reserved

Contents

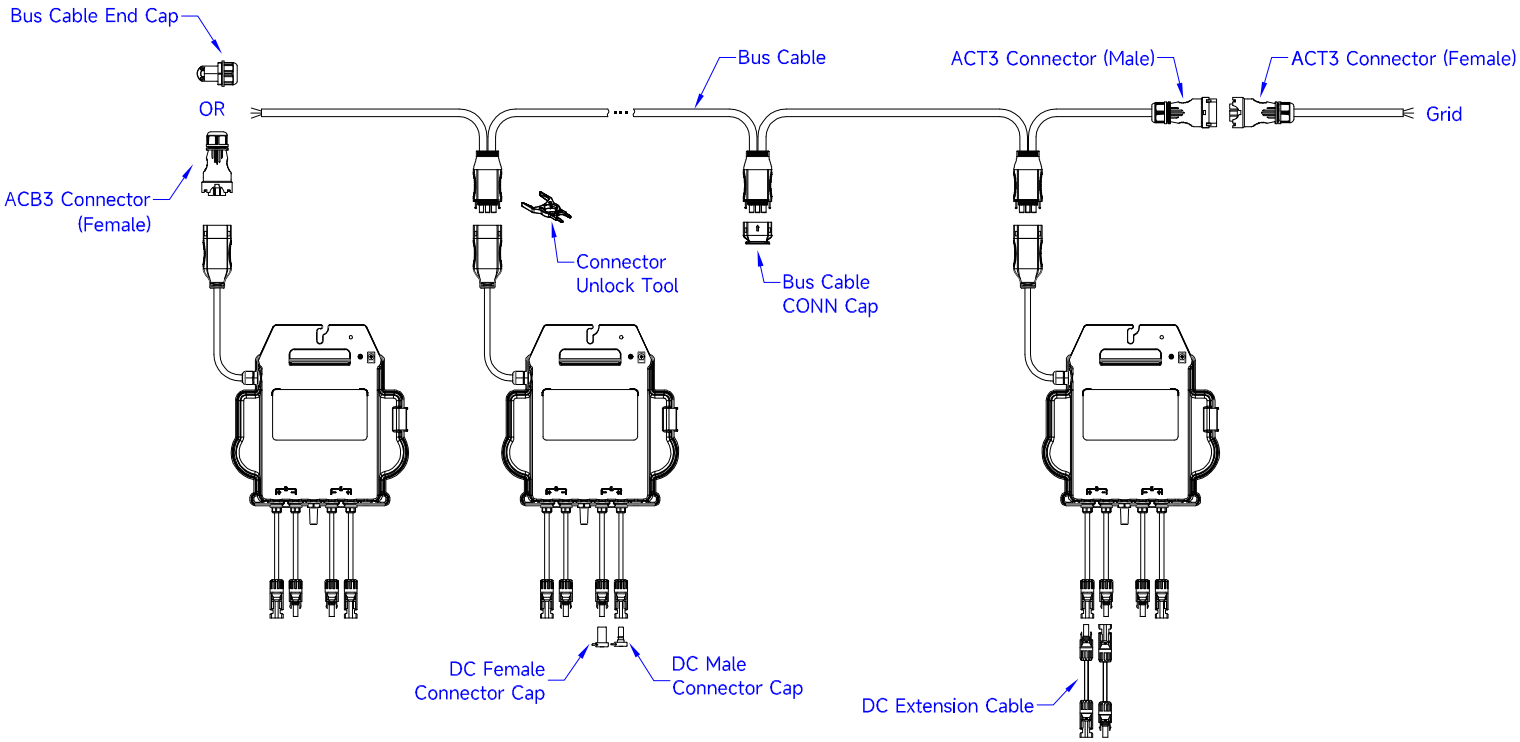
DS3 Series Accessories 3
1. Wiring Diagram 3
2. Dimensions 4
3. Accessories Summary 5
DS3D Accessories 7
1. Wiring Diagram 7
2. DS3D Dimensions 8
3. Accessories Summary 9
QS2 Accessories 11
1. Wiring Diagram 11
2. QS2 Dimensions 12
3. Accessories Summary 13
QT2 Accessories 14
1. Wiring Diagram 14
2. QT2 Dimensions 15
3. Accessories Summary 16
QT2D Accessories 18
1. Wiring Diagram 18
2. QT2D Dimensions 19
3. Accessories Summary 20
ECU-C Accessories 21
1. Wiring Diagram 21
2. ECU-C Dimensions 22
3. Accessories Summary 23
ECU-R Accessories 25
1. Wiring Diagram 25
2. ECU-R Dimensions 26
3. Accessories Summary 27
ECU-B Accessories 28
1. Wiring Diagram 28

2. ECU-B Dimensions 29
3. Accessories Summary 30
Accessories information 31

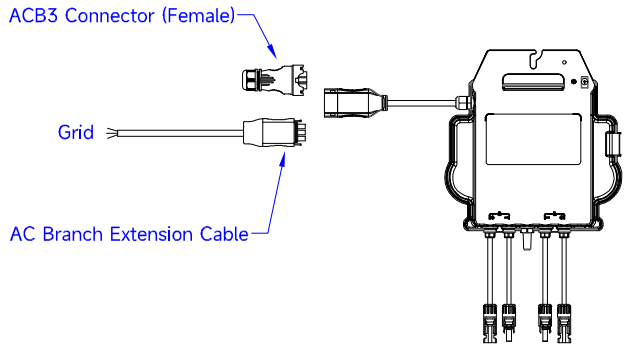
DS3 Series Accessories

1. Wiring Diagram

Multiple Microinverter Connection

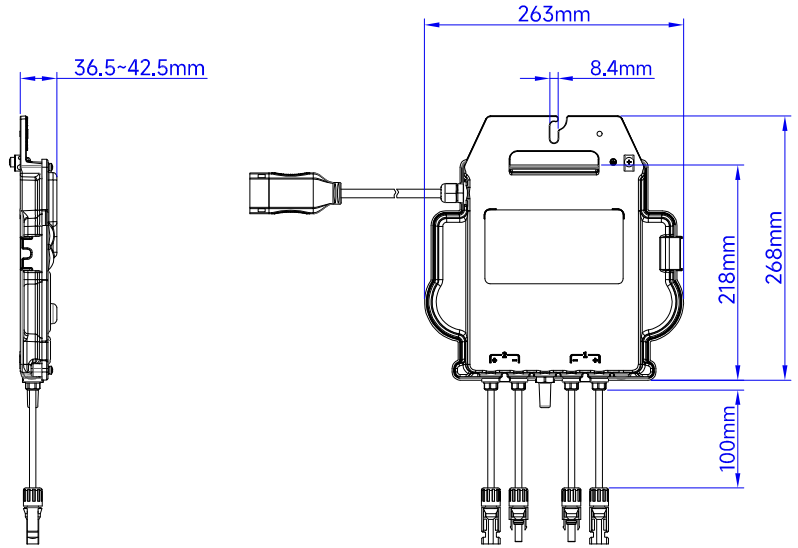


Single Microinverter Connection

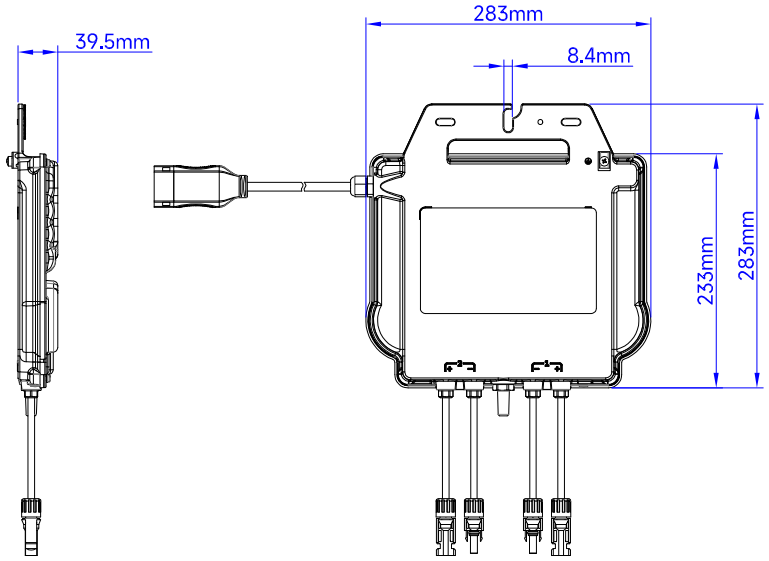


2. Dimensions

DS3 Dimensions



DS3-LV Dimensions



3. Accessories Summary

Region		Category	Accessories							
			Bus Cable Mandatory		ACT3 Connector (Male) Optional	ACT3 Connector (Female) Optional	ACB3 Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	Connector Unlock Tool Mandatory
LATAM	Brazil	Part No.	2322304903	2322601503	2301631505	2301632505	2301432705	2060700017	2061702007	2355000003
		Name	Single Phase Bus Cable (2.5mm², H07,2m)	Single Phase Bus Cable (4mm², PV07,2.4m)	ACT3 Connector (3core,male, 40A)	ACT3 Connector (3core,female,40A)	ACB3 Connector (3C,female,25A,two seals)	3-wire Bus Cable End Cap	Bus Cable Y-CONN Cap	Y3-DC Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel		For extending the bus cable	For extending the bus cable	Added to a bus cable end or a DIY branch extension for microinverter connection	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking Y3 and DC connectors
		Picture								

Region		Category	Accessories					
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional			AC Branch Extension Cable Optional
LATAM	Brazil	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2334076132
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	Single Phase Br. Ext-cable(2.5mm², 1m)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables			For grid connection of a single microinverter
		Picture						

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

Region		Category	Accessories							
			Bus Cable Mandatory		ACT3 Connector (Male) Optional	ACT3 Connector (Female) Optional	ACB3 Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	Connector Unlock Tool Mandatory
LATAM	Mexico	Part No.	2322301303	2322600403	2301631505	2301632505	2301432705	2060700017	2061702007	2355000003
		Name	Split Phase Bus Cable (12AWG, TC,2m)	Split Phase Bus Cable (10AWG, TC,2.4m)	ACT3 Connector (3core,male, 40A)	ACT3 Connector (3core,female,40A)	ACB3 Connector (3C,female,5A,two seals)	3-wire Bus Cable End Cap	Bus Cable Y-CONN Cap	Y3-DC Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel		For extending the bus cable	For extending the bus cable	Added to a bus cable end or a DIY branch extension for microinverter connection	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking Y3 and DC connectors
		Picture								

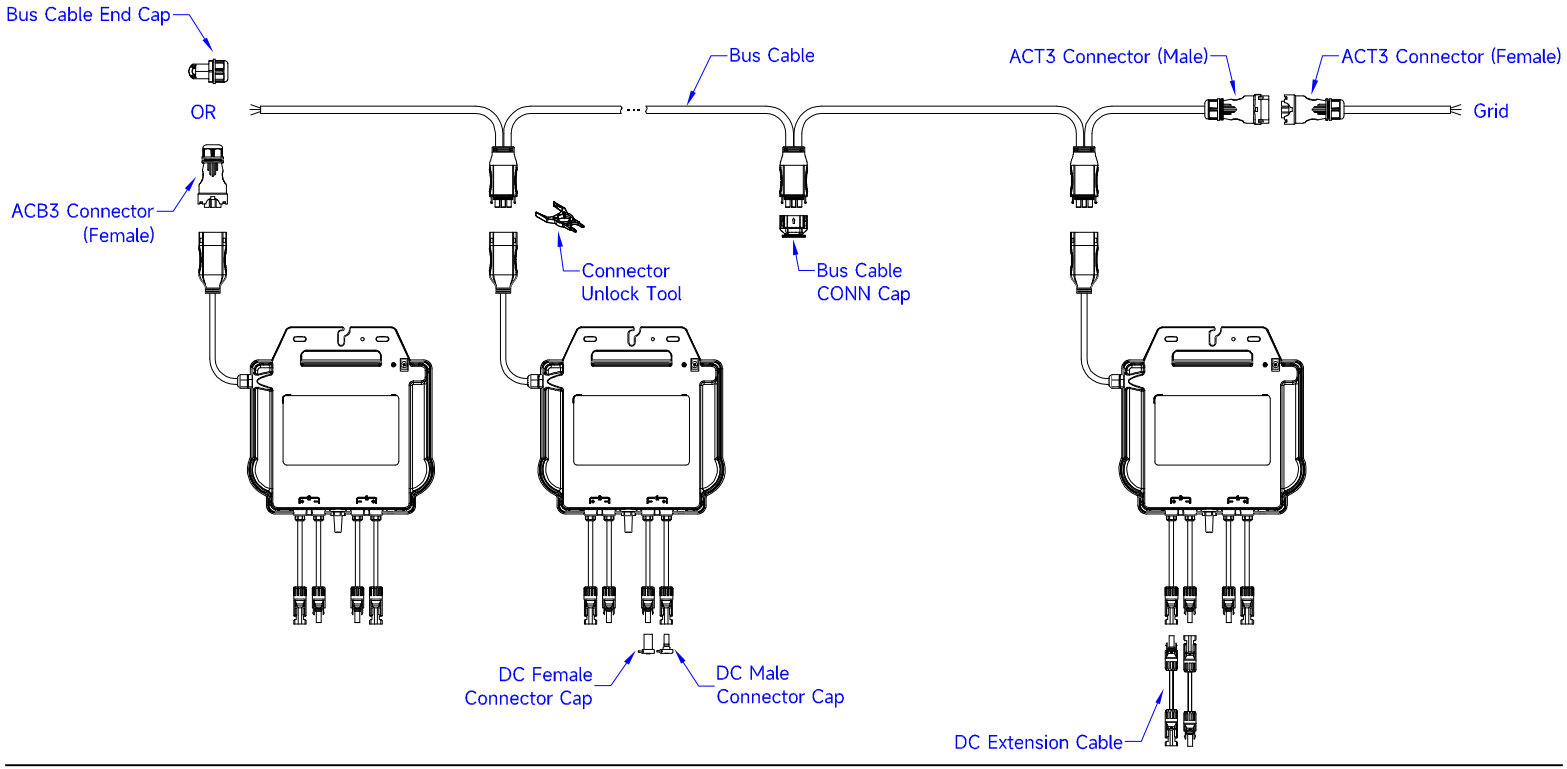
Region		Category	Accessories					
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional			AC Branch Extension Cable Optional
LATAM	Mexico	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2334075242
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	Split Phase Br. Ext-cable (18AWG,TC, 2m)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables			For grid connection of a single microinverter
		Picture						

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

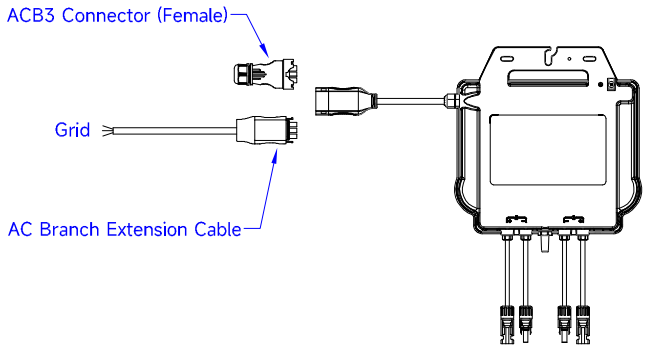
DS3D Accessories

1. Wiring Diagram

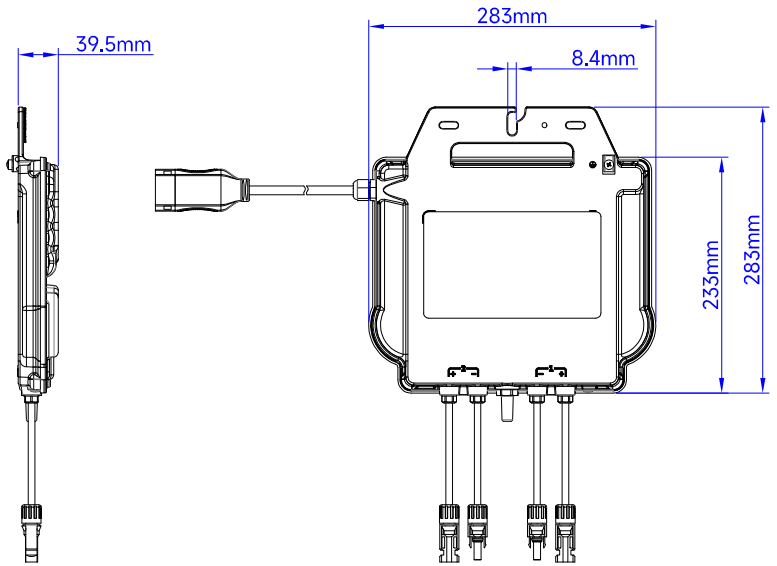
Multiple Microinverter Connection



Single Microinverter Connection



2. DS3D Dimensions



3. Accessories Summary

Region		Category	Accessories							
			Bus Cable Mandatory		ACT3 Connector (Male) Optional	ACT3 Connector (Female) Optional	ACB3 Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	Connector Unlock Tool Mandatory
LATAM	Brazil	Part No.	2322304903	2322601503	2301631505	2301632505	2301432705	2060700017	2061702007	2355000003
		Name	Single Phase Bus Cable (2.5mm², H07,2m)	Single Phase Bus Cable (4mm², PV07,2.4m)	ACT3 Connector (3core,male, 40A)	ACT3 Connector (3core,female,40A)	ACB3 Connector (3C,female,25A,two seals)	3-wire Bus Cable End Cap	Bus Cable Y-CONN Cap	Y3-DC Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel		For extending the bus cable	For extending the bus cable	Added to a bus cable end or a DIY branch extension for microinverter connection	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking Y3 and DC connectors
		Picture								

Region		Category	Accessories					
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional			AC Branch Extension Cable Optional
LATAM	Brazil	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2310370236	2334076132
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	4m DC Extension Cable (MC4)	Single Phase Br. Ext-cable (2.5mm², 1m)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables				For grid connection of a single microinverter
		Picture							

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

Region		Category	Accessories							
			Bus Cable Mandatory		ACT3 Connector (Male) Optional	ACT3 Connector (Female) Optional	ACB3 Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	Connector Unlock Tool Mandatory
LATAM	Mexico	Part No.	2322301303	2322600403	2301631505	2301632505	2301432705	2060700017	2061702007	2355000003
		Name	Split Phase Bus Cable (12AWG, TC,2m)	Split Phase Bus Cable (10AWG, TC,2.4m)	ACT3 Connector (3core,male, 40A)	ACT3 Connector (3core,female,40A)	ACB3 Connector (3C,female,25A,two seals)	3-wire Bus Cable End Cap	Bus Cable Y-CONN Cap	Y3-DC Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel		For extending the bus cable	For extending the bus cable	Added to a bus cable end or a DIY branch extension for microinverter connection	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking Y3 and DC connectors
		Picture								

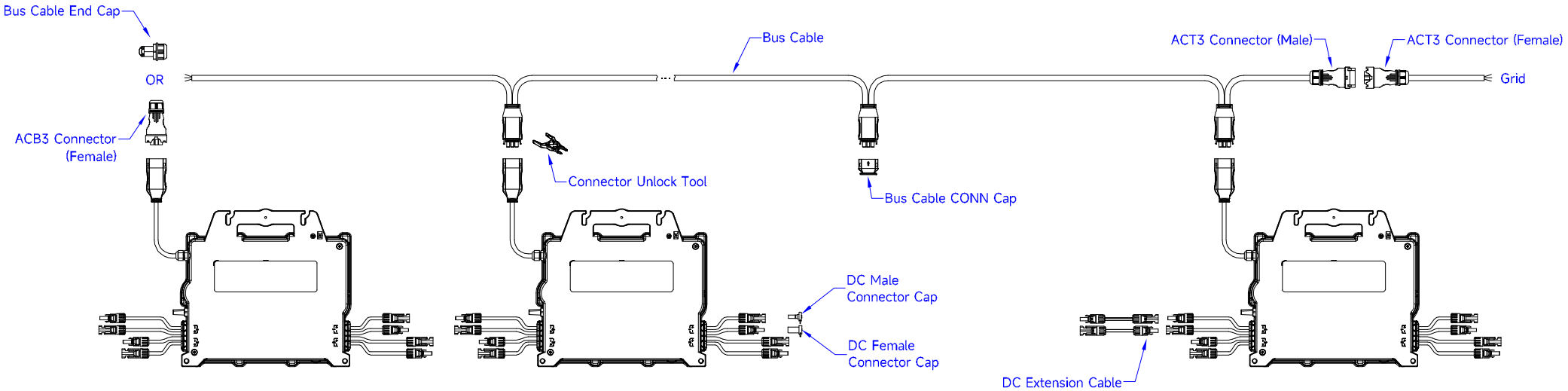
Region		Category	Accessories					
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional			AC Branch Extension Cable Optional
LATAM	Mexico	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2310370236	2334075242
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	4m DC Extension Cable (MC4)	Split Phase Br. Ext-cable (18AWG,TC, 2m)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables				For grid connection of a single microinverter
		Picture							

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

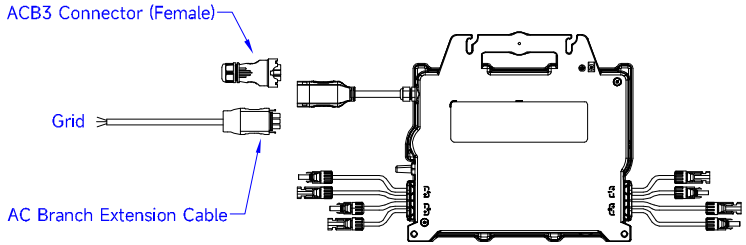
QS2 Accessories

1. Wiring Diagram

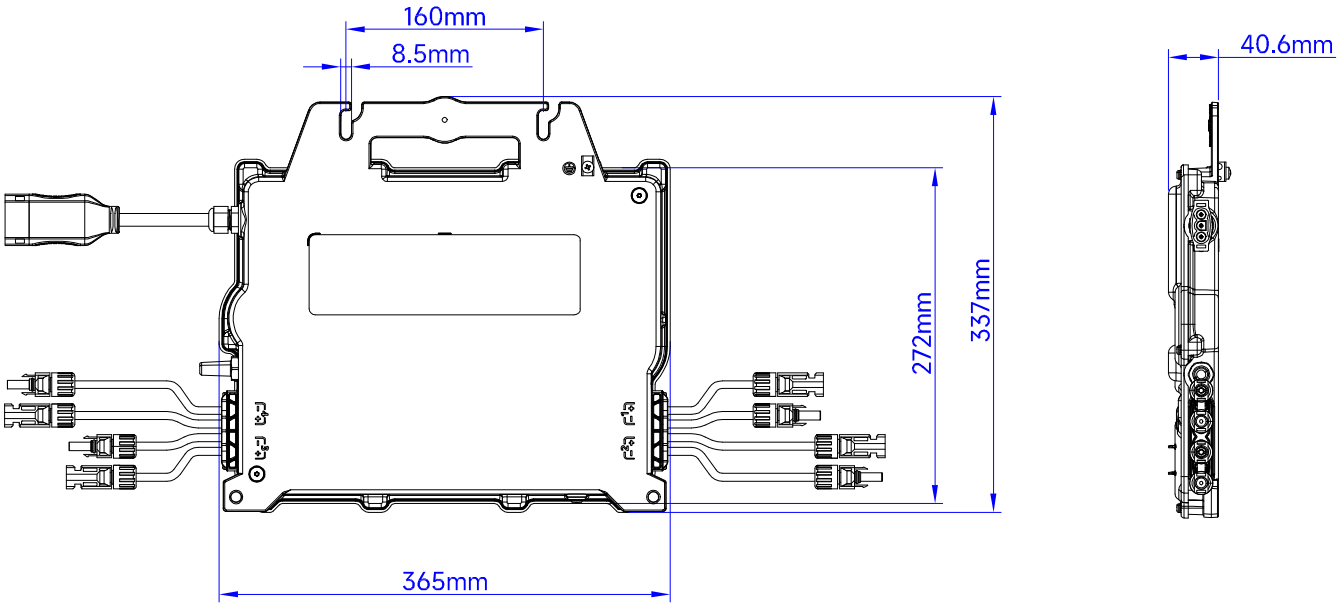
Multiple Microinverter Connection



Single Microinverter Connection



2. QS2 Dimensions



3. Accessories Summary

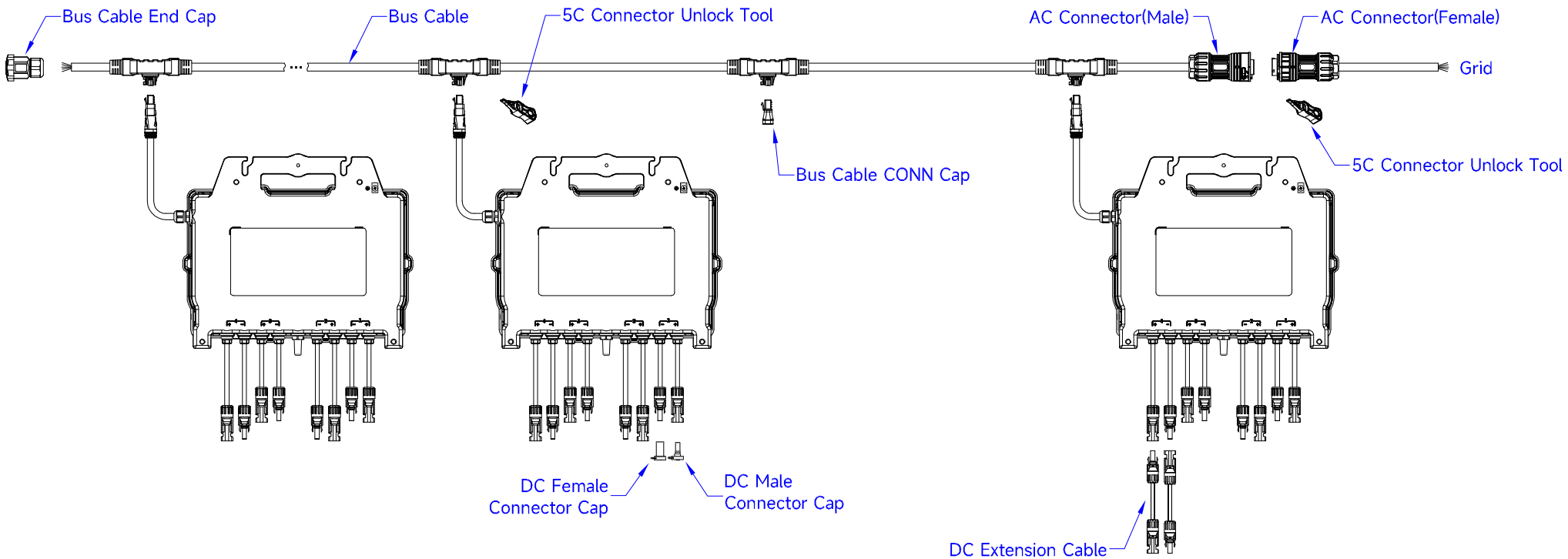
Region		Category	Accessories							
			Bus Cable Mandatory		ACT3 Connector (Male) Optional	ACT3 Connector (Female) Optional	ACB3 Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	Connector Unlock Tool Mandatory
LATAM	Brazil	Part No.	2322304903	2322601503	2301631505	2301632505	2301432705	2060700017	2061702007	2355000003
		Name	Single Phase Bus Cable (2.5mm², H07,2m)	Single Phase Bus Cable (4mm², PV07,2.4m)	ACT3 Connector (3core,male, 40A)	ACT3 Connector (3core,female,40A)	ACB3 Connector (3C,female,25A,two seals)	3-wire Bus Cable End Cap	Bus Cable Y-CONN Cap	Y3-DC Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel		For extending the bus cable	For extending the bus cable	Added to a bus cable end or a DIY branch extension for microinverter connection	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking Y3 and DC connectors
		Picture								

Region		Category	Accessories					
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional			AC Branch Extension Cable Optional
LATAM	Brazil	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2310370236	2334075242
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	4m DC Extension Cable (MC4)	Split Phase Br. Ext-cable (18AWG,TC, 2m)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables				For grid connection of a single microinverter
		Picture							

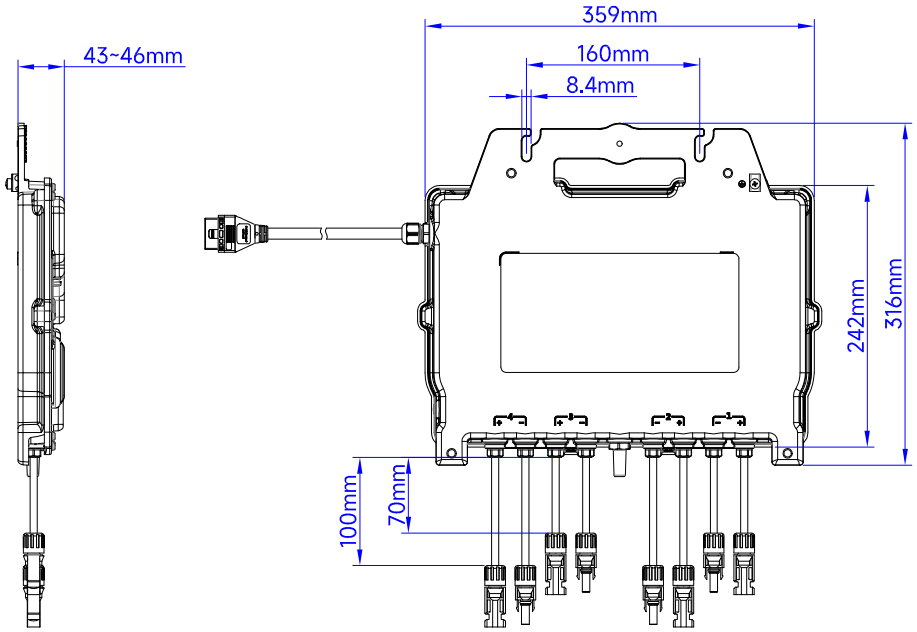
Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

QT2 Accessories

1. Wiring Diagram



2. QT2 Dimensions



3. Accessories Summary

Region		Category	Accessories								
			Bus Cable Mandatory				AC Connector (Male) Optional	AC Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	5C Connector Unlock Tool Mandatory
LATAM	Brazil	Part No.	2322604802	2322555602	2322289182	2322559192	2301511002	2301512002	2062050012	2061252032	2353000002
		Name	3-phase 5C Bus Cable(2.5mm², H07,2.4m)	3-phase 5C Bus Cable(2.5mm², H07,5.5m)	3-phase 5C Bus Cable(4mm², H07,2.8m)	3-phase 5C Bus Cable(4mm², H07,5.5m)	AC Connector (5C,40A,male)	AC Connector (5C,40A,female)	5C Bus Cable End Cap(Two seals)	5-wire Bus Cable T-CONN Cap	5C Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel				For extending the bus cable	For extending the bus cable	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking 5C bus cable and 5C connectors
		Picture									

Region		Category	Accessories				
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional		
LATAM	Brazil	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2310370236
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	4m DC Extension Cable (MC4)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables			
		Picture						

Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

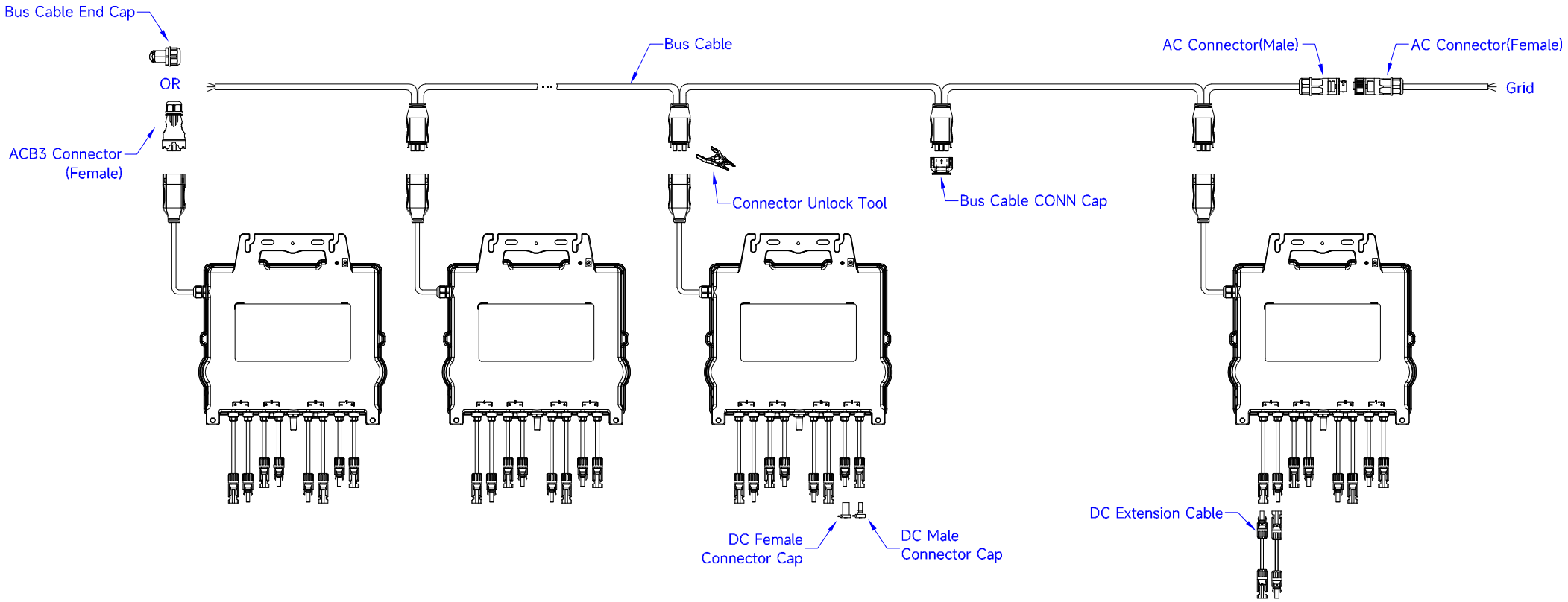
Region		Category	Accessories								
			Bus Cable Mandatory				AC Connector (Male) Optional	AC Connector (Female) Optional	Bus Cable End Cap Mandatory	Bus Cable CONN Cap Optional	5C Connector Unlock Tool Mandatory
LATAM	Mexico	Part No.	2322604502	2322904502	2322609202	2322909202	2301511002	2301512002	2062050012	2061252032	2353000002
		Name	3-phase 5C Bus Cable(12AWG, TC,2.4m)	3-phase 5C Bus Cable(12AWG, TC,4.6m)	3-phase 5C Bus Cable(10AWG, TC,2.4m)	3-phase 5C Bus Cable(10AWG, TC,4.6m)	AC Connector (5C,40A,male)	AC Connector (5C,40A,female)	5C Bus Cable End Cap(Two seals)	5-wire Bus Cable T-CONN Cap	5C Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel				For extending the bus cable	For extending the bus cable	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking 5C bus cable and 5C connectors
		Picture									

Region		Category	Accessories				
			DC Male Connector Cap Optional	DC Female Connector Cap Optional	DC Extension Cable Optional			
LATAM	Mexico	Part No.	2060401006	2060402006	2310310274	2310360214	2310360224	2310370236
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	4m DC Extension Cable (MC4)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables			
		Picture						

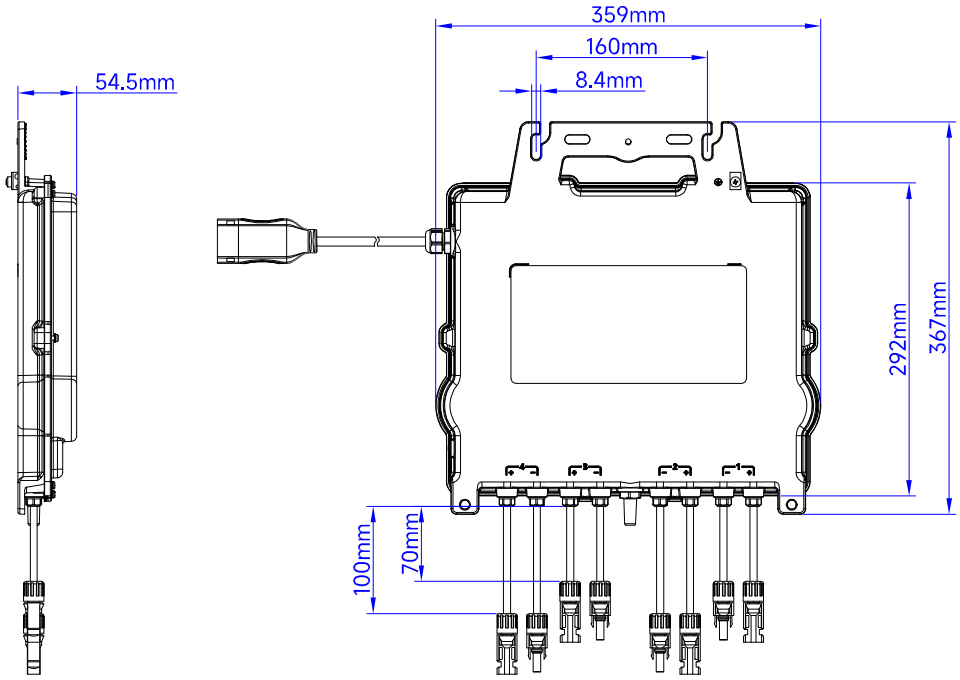
Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

QT2D Accessories

1. Wiring Diagram



2. QT2D Dimensions



3. Accessories Summary

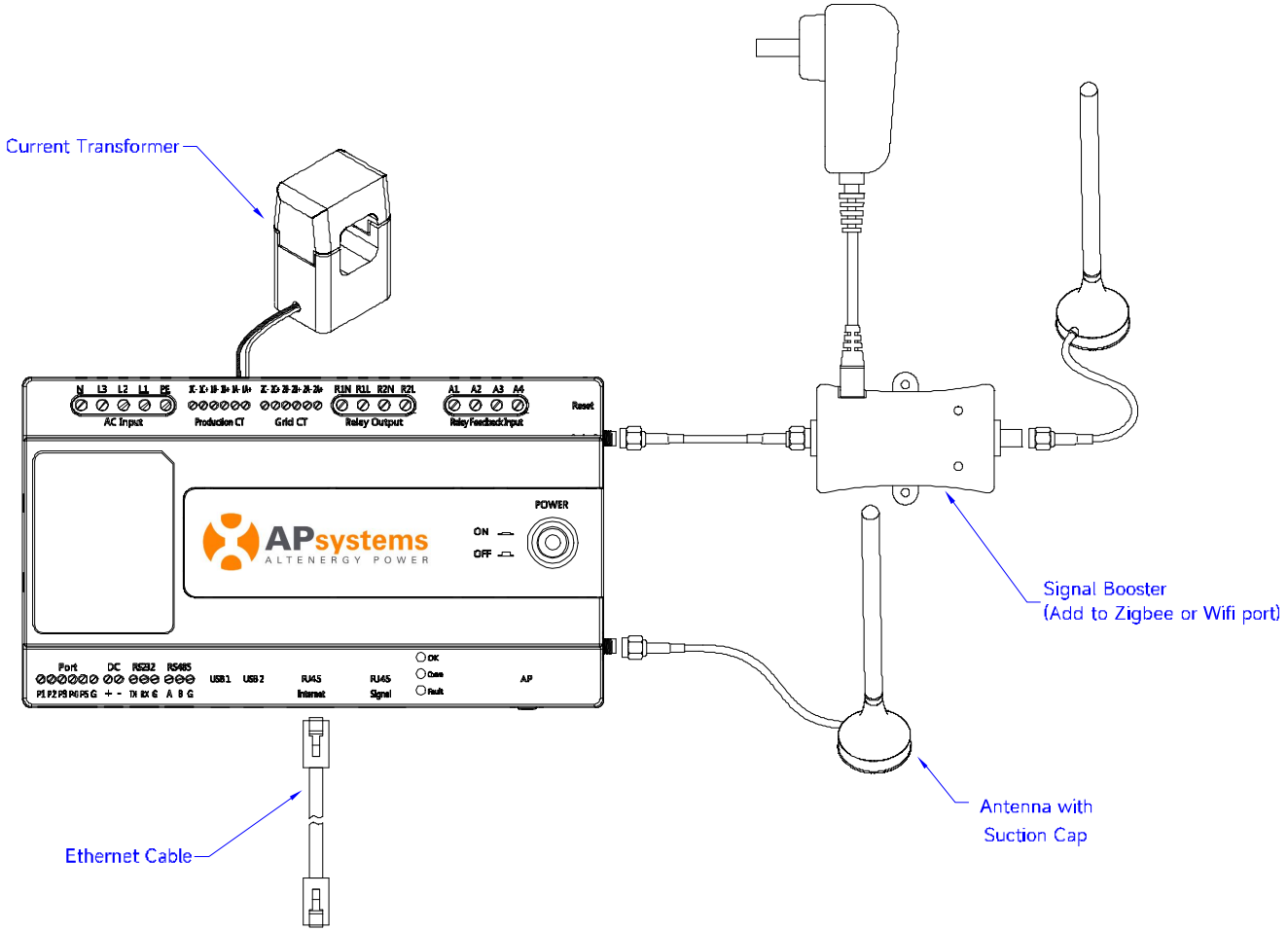
Region		Category	Accessories						
			Bus Cable Mandatory	**ACT3 Connector (Male)** Optional	**ACT3 Connector (Female)** Optional	**ACB3 Connector (Female)** Optional	**Bus Cable End Cap** Mandatory	**Bus Cable CONN Cap** Optional	**Connector Unlock Tool** Mandatory
LATAM	Brazil	**Part No.**	2322030813	2301631505	2301632505	2301432705	2060700017	2061702007	2355000003
		Name	3-phase Bus Cable(4mm², H07,5.5m)	ACT3 Connector (3core,male, 40A)	ACT3 Connector (3core,female,40A)	ACB3 Connector (3C,female,25A,two seals)	3-wire Bus Cable End Cap	Bus Cable Y-CONN Cap	Y3-DC Connector Unlock Tool
		Application	For grid connection of multiple microinverters in parallel	For extending the bus cable	For extending the bus cable	Added to a bus cable end or a DIY branch extension for microinverter connection	For waterproofing the bus cable end	For waterproofing unused bus connectors	For unlocking Y3 and DC connectors
		Picture							

Region		Category	Accessories						
			DC Male Connector Cap Optional	**DC Female Connector Cap** Optional	**DC Extension Cable** Optional				
LATAM	Brazil	**Part No.**	2060401006	2060402006	2310310274	2310360214	2310360224	2310370236	2310370246
		Name	DC Male Connector Cap (MC4)	DC Female Connector Cap (MC4)	1m DC Extension Cable (MC4)	2m DC Extension Cable (MC4)	3m DC Extension Cable (MC4)	4m DC Extension Cable (MC4)	6m DC Extension Cable (MC4)
		Application	For waterproofing unused male DC connectors	For waterproofing unused female DC connectors	For extending DC cables				
		Picture							

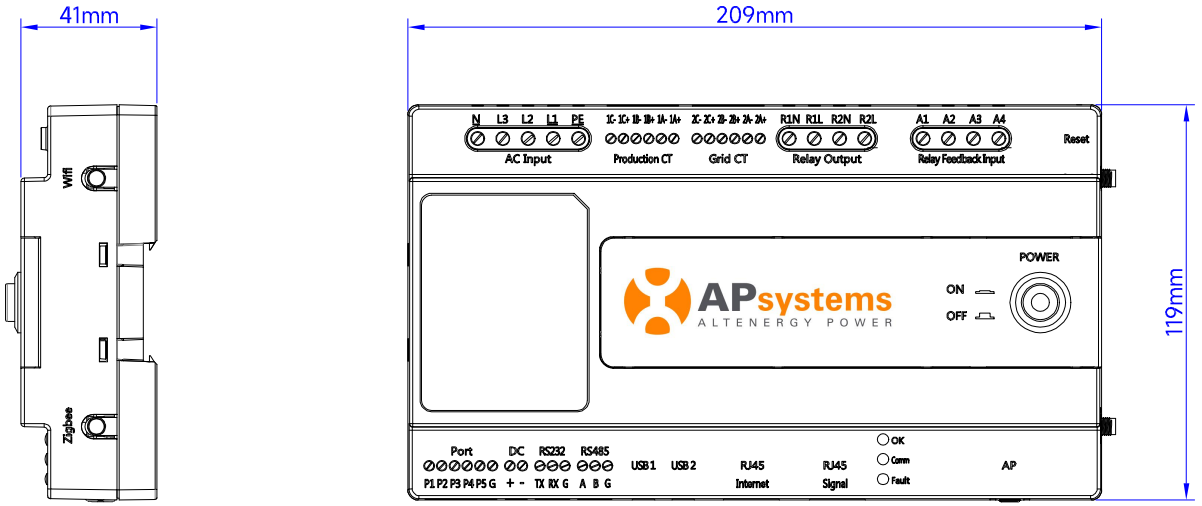
Notes: The cables in this table are recommended by APsystems, and the O.D. and length of the cable can be customized according to customer needs.

ECU-C Accessories

1. Wiring Diagram



2. ECU-C Dimensions



3. Accessories Summary

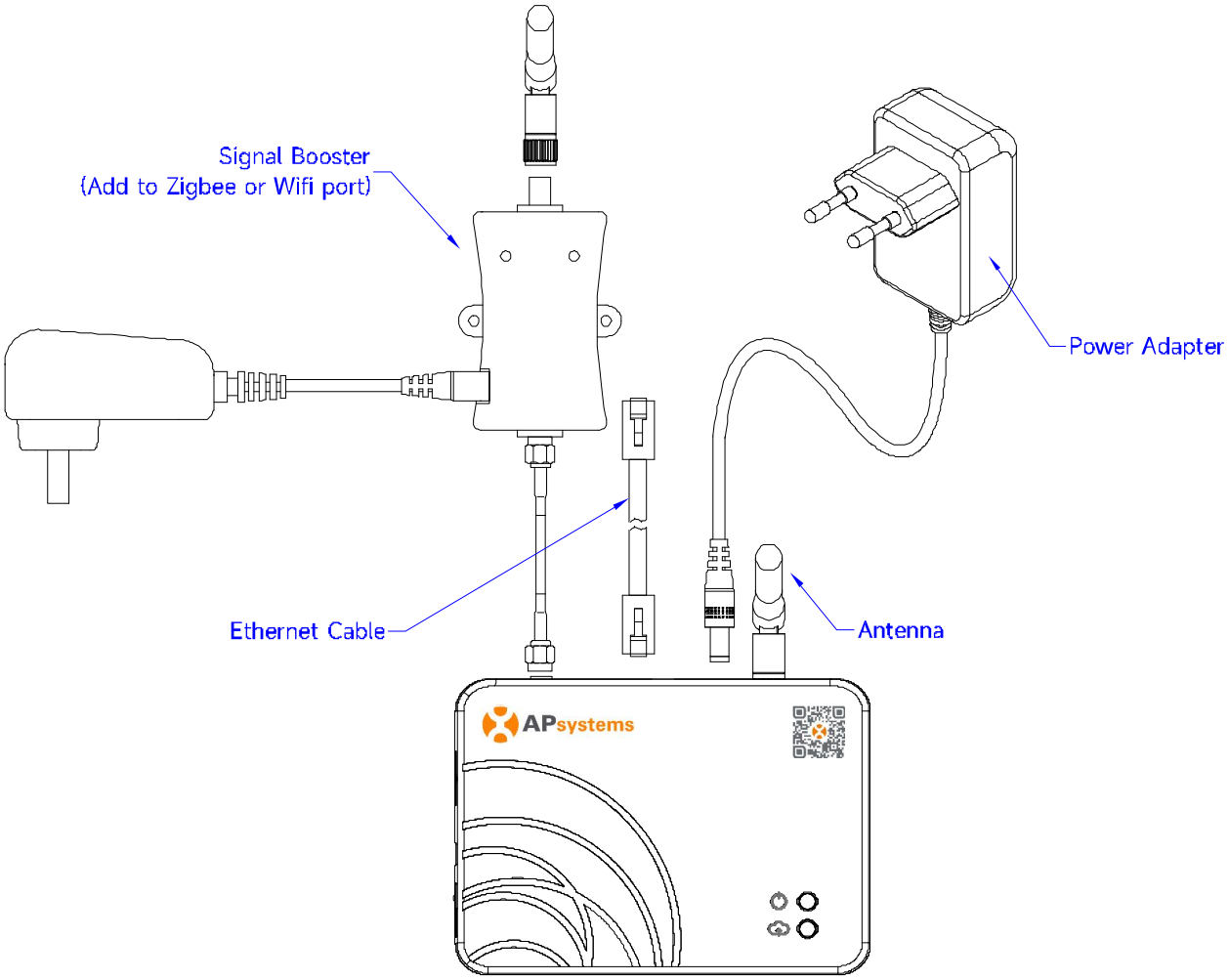
Region	Category	Accessories				
		Antenna with Suction Cap Supply	**Ethernet Cable** Supply	**Current Transformer** Optional		**Signal Booster** Optional
Brazil	**Part No.**	/	/	18083020112	18083020012	2376010003
	Name	Antenna with Suction Cap(L2m)	Ethernet cable	Current Transformer (80A/26.6mA)	Current Transformer (200A/66.6mA)	Signal Booster (European Standard)
	Application	For enhanced signal reception and transmission	For establishing a wired network connection	For collecting current data from both the PV side and the grid side		For enhanced signal reception and transmission
	Picture					

Region		Category	Accessories			
			Antenna with Suction Cap Supply	Ethernet Cable Supply	Current Transformer Optional	Signal Booster Optional
Mexico	-MX: 205031	Part No.	/	/	18083020112	2376000003
		Name	Antenna with Suction Cap(L2m)	Ethernet cable	Current Transformer (80A/26.6mA)	Signal Booster (American Standard)
		Application	For enhanced signal reception and transmission	For establishing a wired network connection	For collecting current data from both the PV side and the grid side	For enhanced signal reception and transmission
		Picture				

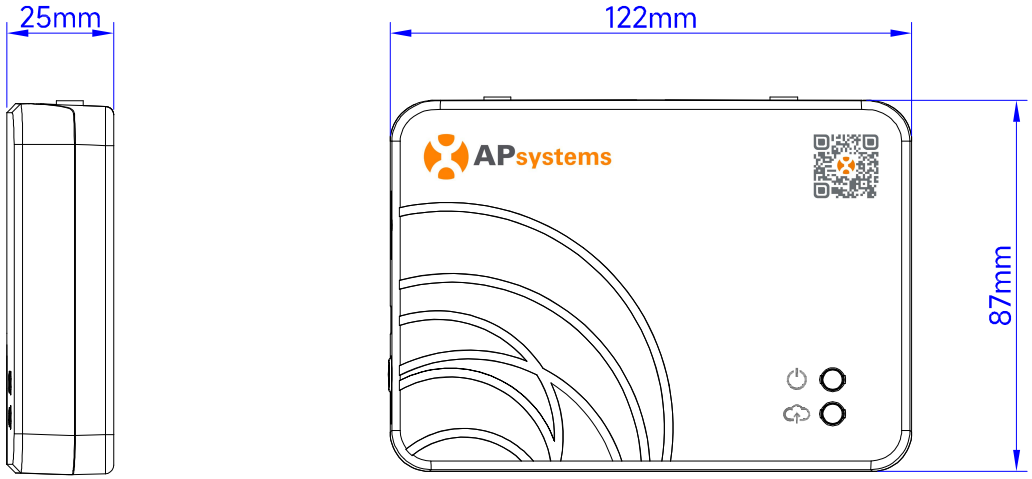
Region		Category	Accessories			
			Antenna with Suction Cap Supply	Ethernet Cable Supply	Current Transformer Optional	Signal Booster Optional
Mexico	-MX: 205051	Part No.	/	/	18083020012	2376000003
		Name	Antenna with Suction Cap(L2m)	Ethernet cable	Current Transformer (200A/66.6mA)	Signal Booster (American Standard)
		Application	For enhanced signal reception and transmission	For establishing a wired network connection	For collecting current data from both the PV side and the grid side	For enhanced signal reception and transmission
		Picture				

ECU-R Accessories

1. Wiring Diagram



2. ECU-R Dimensions



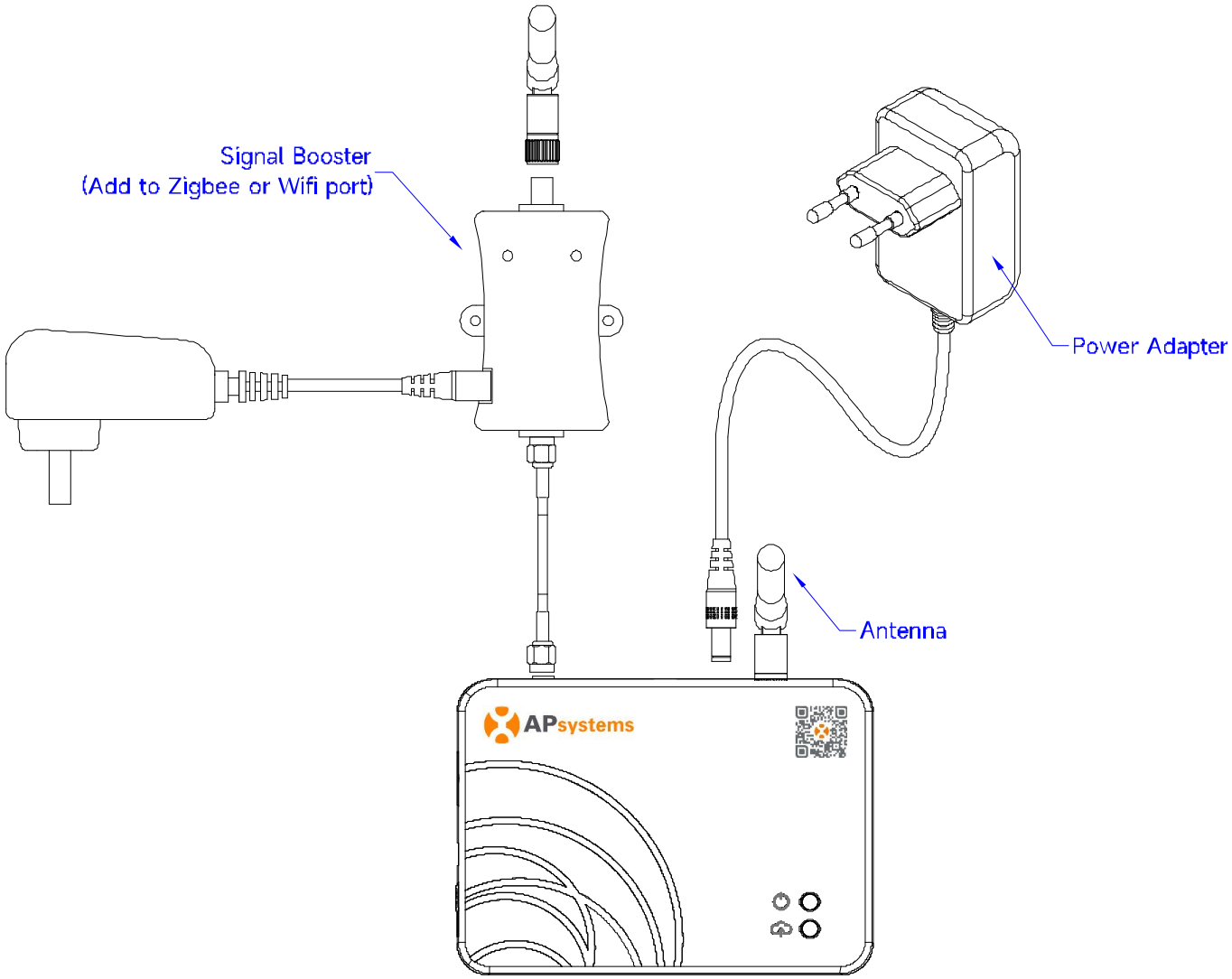
3. Accessories Summary

Region		Category	Accessories			
			Antenna Supply	**Ethernet Cable** Supply	**Power Adapter** Supply	**Signal Booster** Optional
LATAM	Brazil	**Part No.**	/	/	/	2376010003
		Name	Antenna	Ethernet cable	Power Adapter (EU)	Signal Booster (European Standard)
		Application	For enhanced signal reception and transmission	For establishing a wired network connection	For power input to the ECU	For enhanced signal reception and transmission
		Picture				

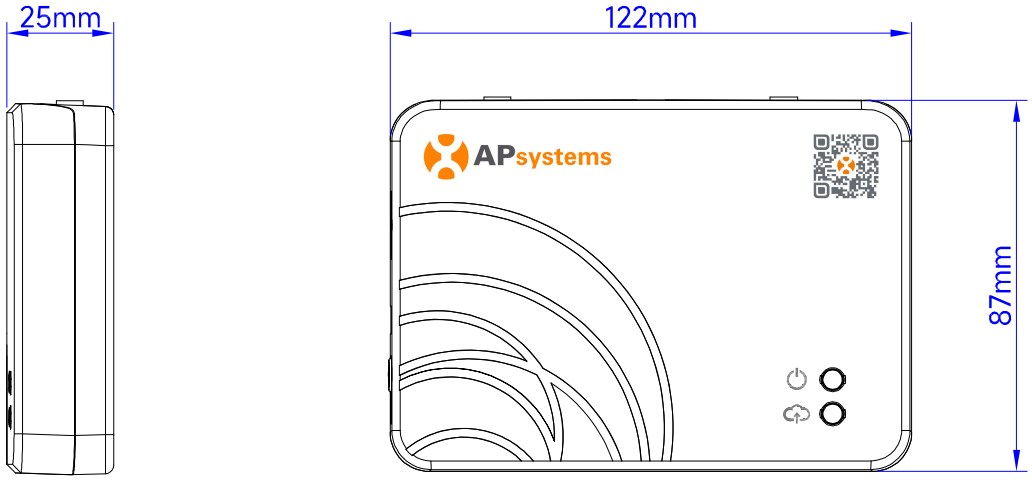
Region		Category	Accessories			
			Antenna Supply	**Ethernet Cable** Supply	**Power Adapter** Supply	**Signal Booster** Optional
LATAM	Mexico	**Part No.**	/	/	/	2376000003
		Name	Antenna	Ethernet cable	Power Adapter (US)	Signal Booster (American Standard)
		Application	For enhanced signal reception and transmission	For establishing a wired network connection	For power input to the ECU	For enhanced signal reception and transmission
		Picture				

ECU-B Accessories

1. Wiring Diagram



2. ECU-B Dimensions



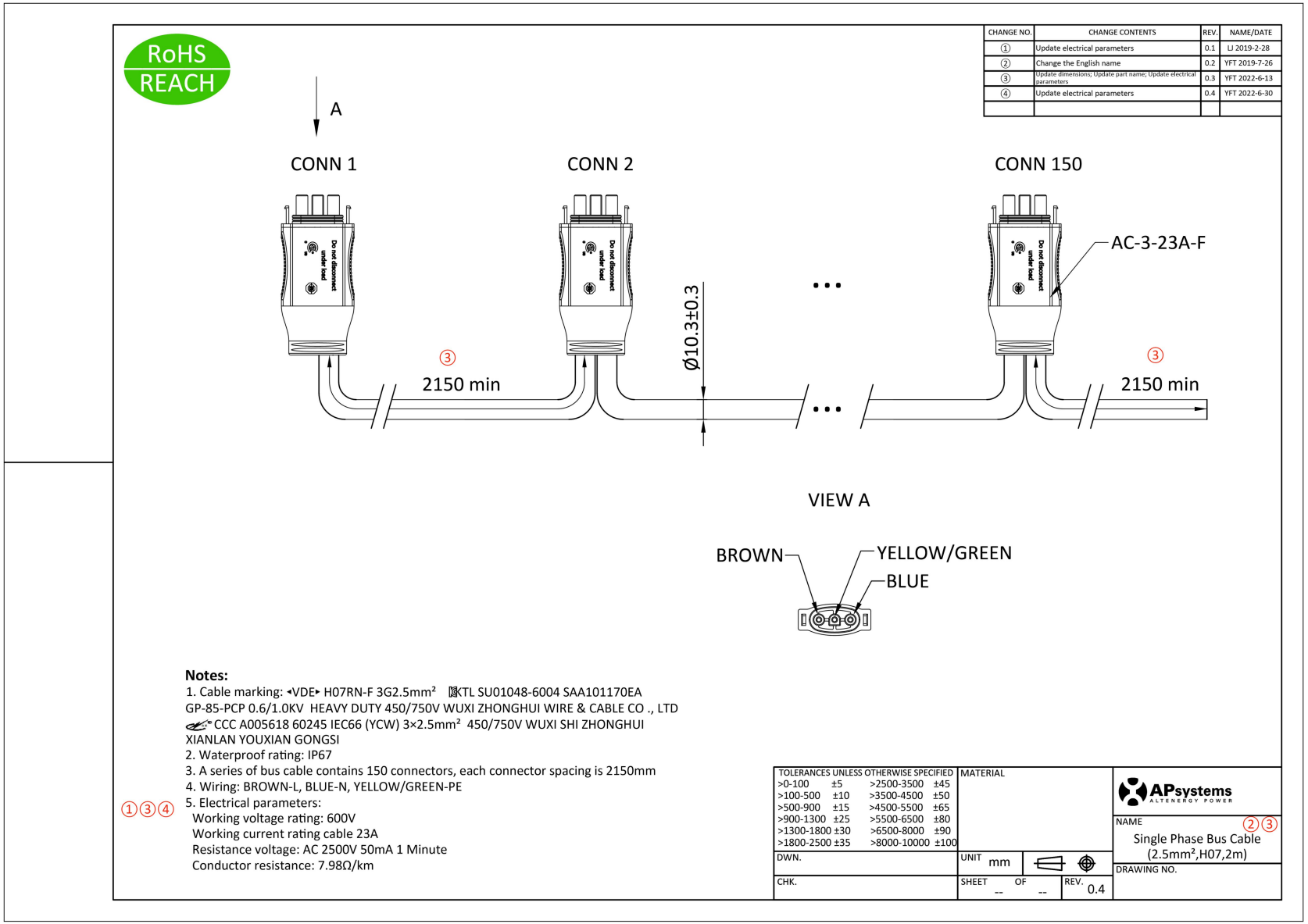
3. Accessories Summary

Region		Category	Accessories		
			Antenna Supply	**Power Adapter** Supply	**Signal Booster** Optional
LATAM	Brazil	**Part No.**	/	/	2376010003
		Name	Antenna	Power Adapter (EU)	Signal Booster (European Standard)
		Application	For enhanced signal reception and transmission	For power input to the ECU	For enhanced signal reception and transmission
		Picture			

Region		Category	Accessories		
			Antenna Supply	**Power Adapter** Supply	**Signal Booster** Optional
LATAM	Mexico	**Part No.**	/	/	2376000003
		Name	Antenna	Power Adapter (US)	Signal Booster (American Standard)
		Application	For enhanced signal reception and transmission	For power input to the ECU	For enhanced signal reception and transmission
		Picture			

Accessories information

2322304903_Single Phase Bus Cable (2.5mm²,H07,2m)



CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update electrical parameters	0.1	LI 2019-2-28
②	Change the English name	0.2	YFT 2019-7-26
③	Update dimensions; Update part name; Update electrical parameters	0.3	YFT 2022-6-13
④	Update electrical parameters	0.4	YFT 2022-6-30

Notes:

1. Cable marking: ◂VDE▸ H07RN-F 3G2.5mm² KTL SU01048-6004 SAA101170EA
GP-85-PCP 0.6/1.0KV HEAVY DUTY 450/750V WUXI ZHONGHUI WIRE & CABLE CO ., LTD
CCC A005618 60245 IEC66 (YCW) 3×2.5mm² 450/750V WUXI SHI ZHONGHUI XIANLAN YOUXIAN GONGSI
2. Waterproof rating: IP67
3. A series of bus cable contains 150 connectors, each connector spacing is 2150mm
4. Wiring: BROWN-L, BLUE-N, YELLOW/GREEN-PE
①③④ 5. Electrical parameters:
Working voltage rating: 600V
Working current rating cable 23A
Resistance voltage: AC 2500V 50mA 1 Minute
Conductor resistance: 7.98Ω/km

TOLERANCES UNLESS OTHERWISE SPECIFIED			
>0-100	±5	>2500-3500	±45
>100-500	±10	>3500-4500	±50
>500-900	±15	>4500-5500	±65
>900-1300	±25	>5500-6500	±80
>1300-1800	±30	>6500-8000	±90
>1800-2500	±35	>8000-10000	±100

MATERIAL

DWN.

CHK.

UNIT mm

SHEET -- OF --

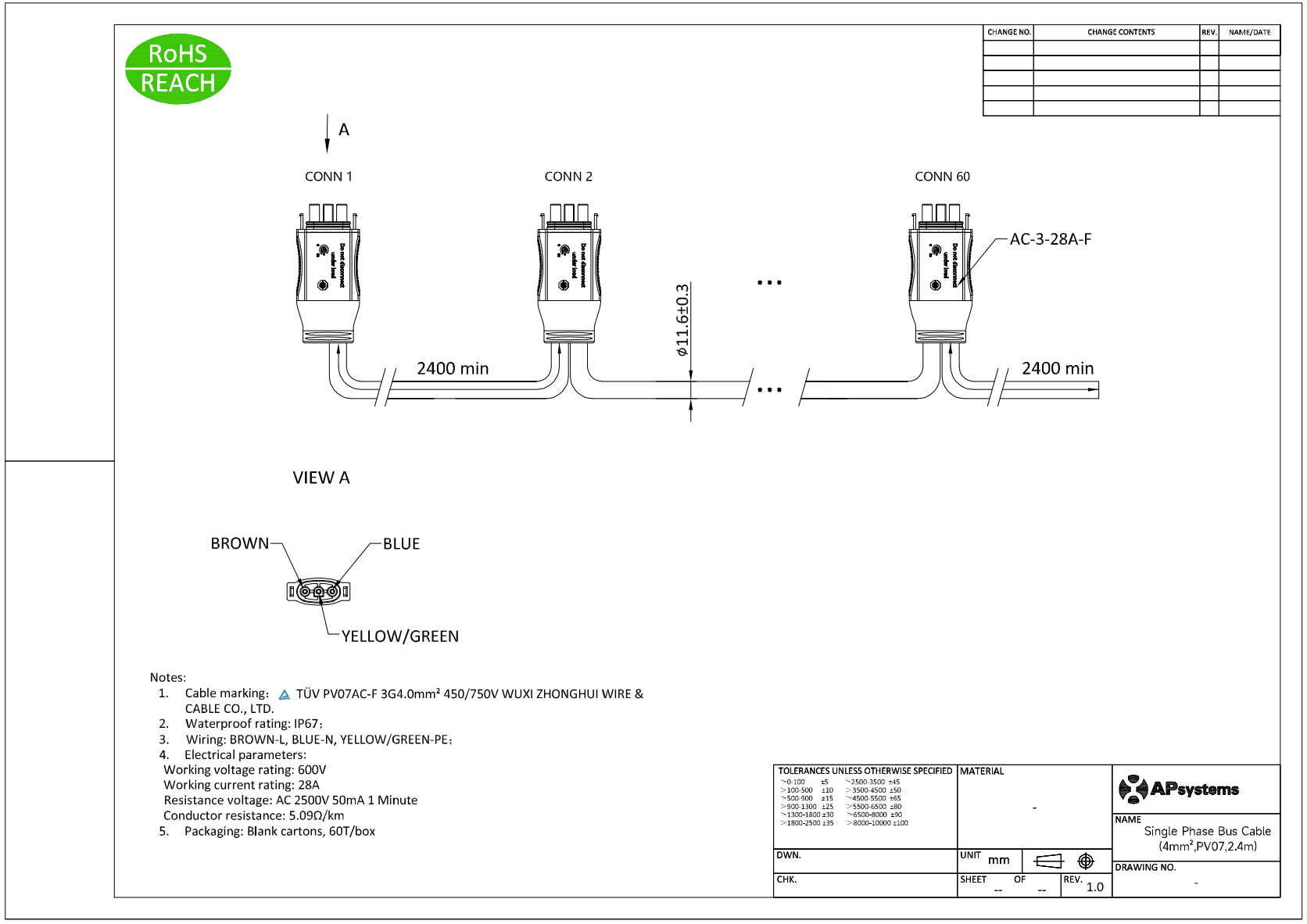
REV. 0.4

APsystems ALTENERGY POWER

NAME ②③ Single Phase Bus Cable (2.5mm²,H07,2m)

DRAWING NO.

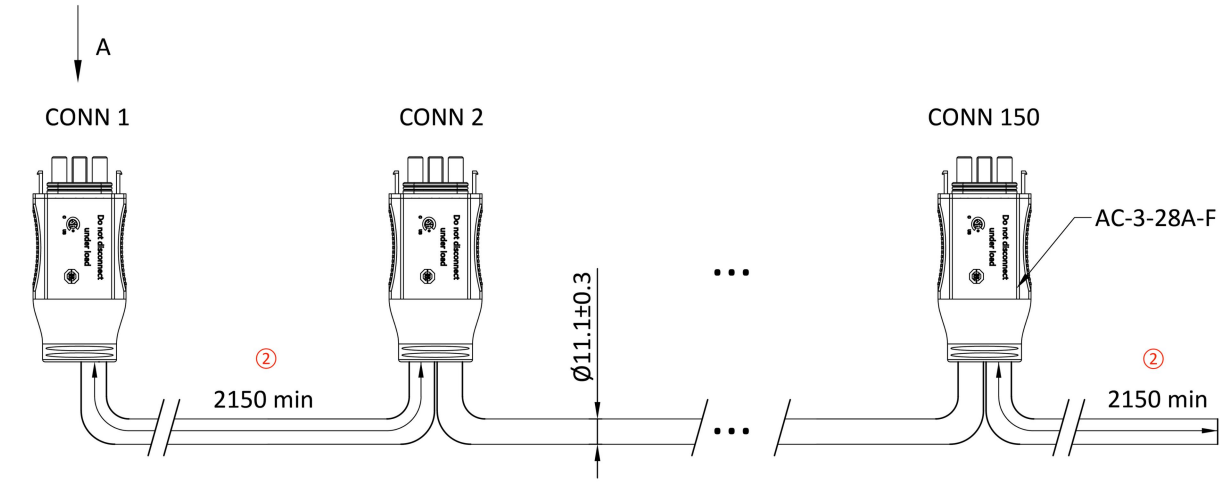
2322601503_Single Phase Bus Cable (4mm²,PV07,2.4m)



2322301303_Split Phase Bus Cable (12AWG,TC,2m)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update electrical parameters and cable	0.1	LI 2019-2-28
②	Update dimensions; Update part name; Update electrical parameters	0.2	YFT 2022-6-13



Notes:

1. Cable marking: E489601 TYPE TC-ER 3C/12AWG 90°C WET OR DRY 600V
--- c TYPE CIC 90°C 600V FT4 DIR BUR SUN RES -40°C COLD BEND HWATEK
2. Waterproof rating: IP67
3. A series of bus cable contains 150 connectors, each connector spacing is 2150mm
4. Wiring: BLACK-L1, RED-L2, GREEN-PE

①② 5. Electrical parameters:
Working voltage rating: 600V
Working current rating cable 28A
Resistance voltage: AC 2500V 50mA 1 Minute
Conductor resistance: 5.43Ω/km

TOLERANCES UNLESS OTHERWISE SPECIFIED			
>0-100	±5	>2500-3500	±45
>100-500	±10	>3500-4500	±50
>500-900	±15	>4500-5500	±65
>900-1300	±25	>5500-6500	±80
>1300-1800	±30	>6500-8000	±90
>1800-2500	±35	>8000-10000	±100

MATERIAL

DWN.

CHK.

UNIT mm

SHEET -- OF --

REV. 0.2

APsystems ALTENERGY POWER

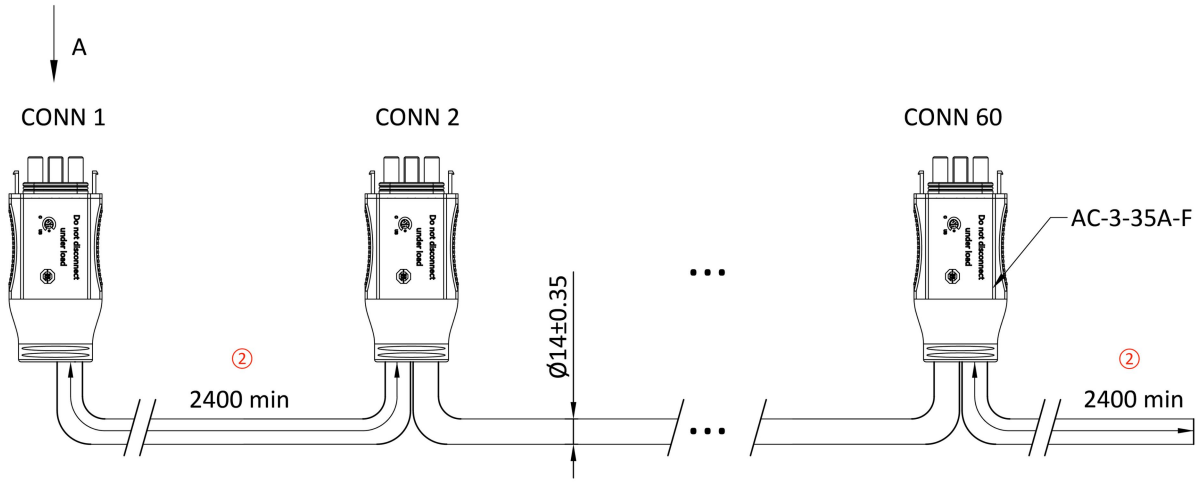
NAME ②
Split Phase Bus Cable
(12AWG,TC,2m)

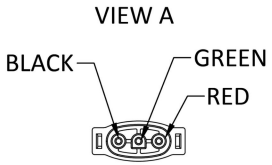
DRAWING NO.

2322600403_Split Phase Bus Cable (10AWG,TC,2.4m)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update number of connectors	0.1	YFT 2021-9-24
②	Update dimensions; Update electrical parameters	0.2	YFT 2022-4-15
③	Update part name	0.3	YFT 2022-6-13
④	Update electrical parameters	0.4	YFT 2022-6-30





Notes:

1. Cable marking: E489601 (UL)TYPE TC-ER 3C/10AWG 90°C WET OR DRY 600V
--- c(UL) TYPE CIC 90°C 600V FT1 XLPE 3C/10AWG FT4 DIR BUR SUN RES COLD BEND HWATEK CE
2. Waterproof rating: IP67
① 3. A series of bus cable contains 60 connectors, each connector spacing is 2400mm
4. Wiring: BLACK-L1, RED-L2, GREEN-PE
②④ 5. Electrical parameters:
Working voltage rating: 600V
Working current rating cable 35A
Resistance voltage: AC 2500V 50mA 1 Minute
Conductor resistance: 3.409Ω/km

TOLERANCES UNLESS OTHERWISE SPECIFIED			
>0-100	±5	>2500-3500	±45
>100-500	±10	>3500-4500	±50
>500-900	±15	>4500-5500	±65
>900-1300	±25	>5500-6500	±80
>1300-1800	±30	>6500-8000	±90
>1800-2500	±35	>8000-10000	±100

MATERIAL

DWN.

CHK.

UNIT mm

SHEET -- OF --

REV. 0.4

APsystems ALTENERGY POWER

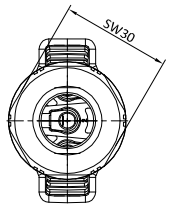
NAME ③
Split Phase Bus Cable
(10AWG,TC,2.4m)

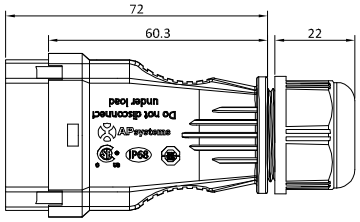
DRAWING NO.

2301631505_ ACT3 Connector (3core,male, 40A)

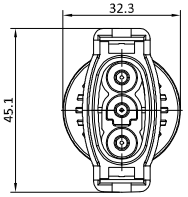
RoHS
REACH

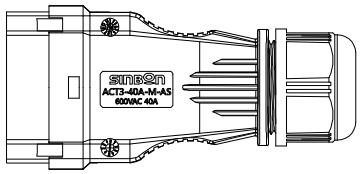
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Modify Packaging Specifications	1.1	
②	Add Logo	1.1	



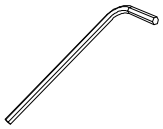


②





Wrench



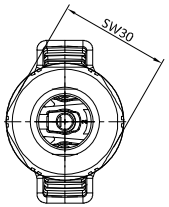
Notes:
1.Rated voltage: 600VAC
2.Max. current:
TUV:40A(6mm²)
CSA/UL:40A(10AWG)
3.Contact resistance: ≤3mΩ
4.Dielectric Withstanding Voltage:1000V;
5.Insulation resistance: ≥500MΩ
6.Ambient Temperature: -40℃~65℃
7.Protection level: IP68（1m,2H）
8.Mechanical life: ≥100
9.Flame retardant code: UL94-V0
10.UV resistance: f1
11.Adapt cable OD: OD=10~14.5mm
12.M4 Torque: 1.2N.m
13.M26 Torque: 3.5~3.7N.m(Reference)
14.Type: ACT3-40A-M-AS
15.Use blank cartons for packaging, 150pcs/box, WT9.15kg/box

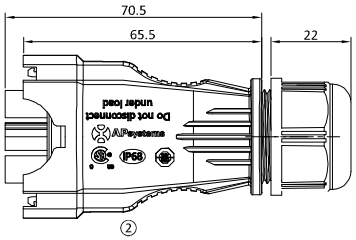
TOLERANCES UNLESS OTHERWISE SPECIFIED x. ±0.30 .x ±0.20 .xx ±0.10	MATERIAL -		APsystems NAME ACT3 Connector (3core,male,40A)
DWN.	UNIT mm		DRAWING NO. -
CHK.	SHEET -- OF --	REV. 1.1	

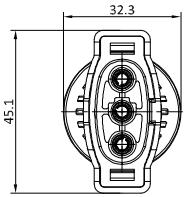
2301632505 ACT3 Connector(3core,female,40A)

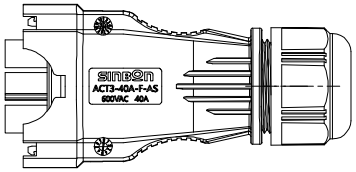
RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Modify Packaging Specifications	1.1	
②	Add Logo	1.1	

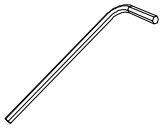








Wrench



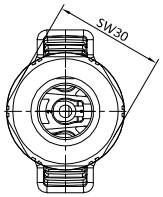
Notes:
1.Rated voltage：600VAC
2.Max. current：
TUV:40A(6mm²)
CSA/UL:40A(10AWG)
3.Contact resistance：≤3mΩ
4.Dielectric Withstanding Voltage:1000V;
5.Insulation resistance：≥500MΩ
6.Ambient Temperature：-40℃~65℃
7.Protection level：IP68（1m,2H）
8.Mechanical life：≥100
9.Flame retardant code：UL94-V0
10.UV resistance：f1
11.Adapt cable OD：OD=10~14.5mm
12.M4 Torque：1.2N.m
13.M26 Torque：3.5~3.7N.m(Reference)
14.Type：ACT3-40A-F-AS
15.Use blank cartons for packaging, 150pcs/box，WT9.15kg/box

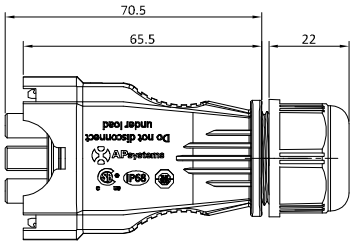
TOLERANCES UNLESS OTHERWISE SPECIFIED	MATERIAL	APsystems
x. ±0.30 .x ±0.20 .xx ±0.10	-	NAME: ACT3 Connector (3core,female,40A)
DWN.	UNIT mm	DRAWING NO. -
CHK.	SHEET -- OF -- REV. 1.1	

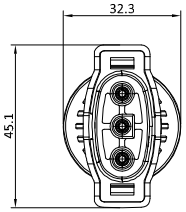
2301432705 ACB3 Connector(3C,female,25A,two seals)

RoHS
REACH

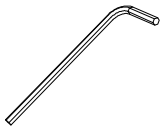
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

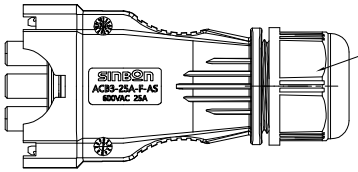




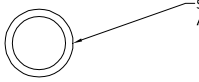


Wrench





Sealing 1
Applicable cable OD:Ø7-11.5mm



Sealing 2
Applicable cable OD:Ø10-14.5mm

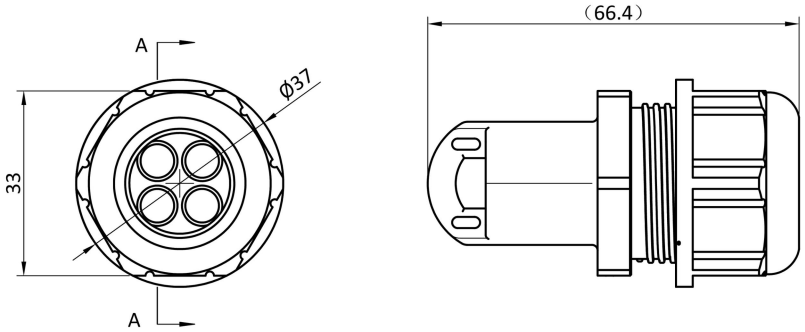
Notes:
1.Rated voltage：600VAC
2.Max. current:
TUV:25A(2.5mm²)
CSA/UL:25A(14AWG)
3.Contact resistance：≤3mΩ
4.Insulation resistance：≥500MΩ
5.Ambient Temperature：-40℃~65℃
6.Protection level：IP68（1m,2H）
7.Mechanical life：≥100
8. Salt spary test: 24H Neutral salt spra
9.Flame retardant code：UL94-V0
10.UV resistance：f1
11.Adapt cable OD：OD1=7~11.5mm
OD2=10~14.5mm
12.M4 Torque：1.0N.m
13.M26 Torque：3.5~3.7N.m(Reference)
14.Type：ACB3-25A-F-AS
15.Use blank cartons for packaging, 150pcs/box，WT 8.79kg/box

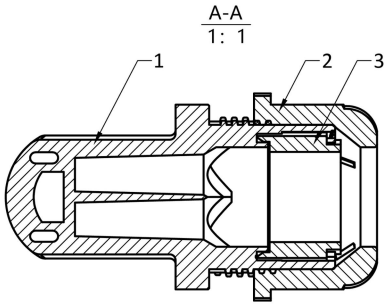
TOLERANCES UNLESS OTHERWISE SPECIFIED	MATERIAL	APsystems
x. ±0.30 .x ±0.20 .xx ±0.10	-	NAME: ACB3 Connector (3C,female,25A,two seals)
DWN.	UNIT mm	DRAWING NO. -
CHK.	SHEET -- OF -- REV. 1.0	

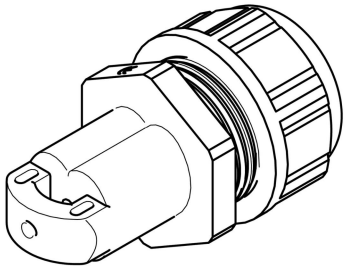
2060700017_ 3-wire Bus Cable End Cap

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Change the name	0.2	ZZH 2023-6-9







Notes：
1. Cable Size：10~16mm；
2. Nut Torque：3.0~5.0N·m；
3. Waterproof Rating：IP68；
4. Operating Temperature Range：-40~105°C；

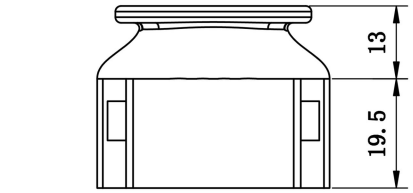
NO.	NAME	TYPE	MAT.	QTY.	REMARK
3	Sealing bushing		Rubber	1	
2	Round nut		PA6	1	
1	Joint body		PA6	1	

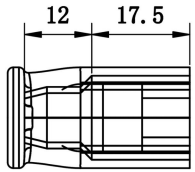
TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.5	MATERIAL -	APsystems ALTENERGY POWER	
DWN.	UNIT mm	NAME ① 3-wire Bus Cable End Cap	
CHK.	SHEET -- OF -- REV. 2.1	DRAWING NO. -	

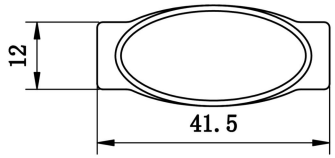
2061702007_Bus Cable Y-CONN Cap

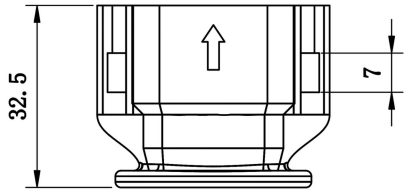
RoHS
REACH

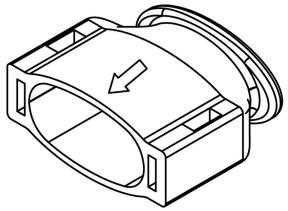
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE











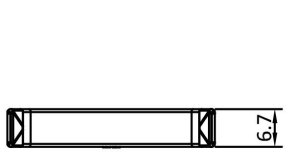
Notes:
1. Type: DUO0050

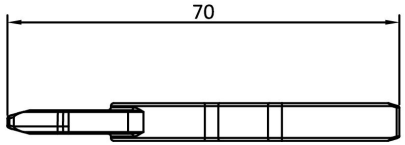
TOLERANCES UNLESS OTHERWISE SPECIFIED	MATERIAL	
> 0.5~3: ±0.15 > 3~6: ±0.2 > 6~30: ±0.5 > 30~120: ±0.8 > 120~315: ±1.2 ANGLES: ±1°	PPE	APsystems ALTENERGY POWER
DWN.	UNIT mm	NAME: Bus Cable Y-CONN Cap
CHK.	SHEET -- OF -- REV. 0.0	DRAWING NO. -

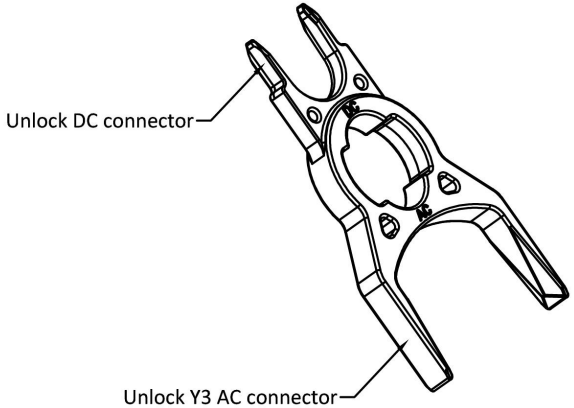
2355000003_Y3-DC Connector Unlock Tool

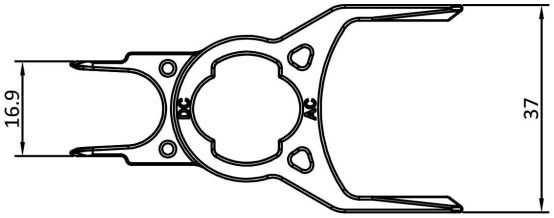
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update part name and packaging	1.0	YFT 2025-2-10

RoHS
REACH









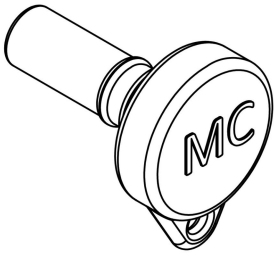
Notes:
1.Color: black

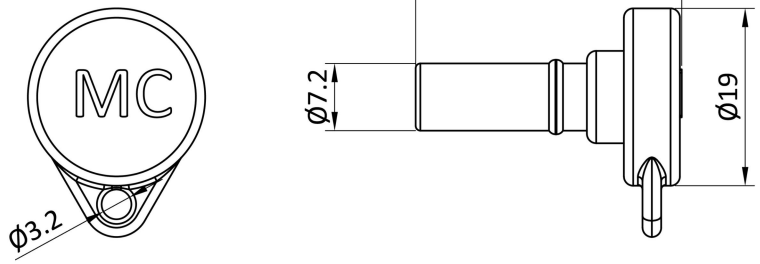
TOLERANCES UNLESS OTHERWISE SPECIFIED 塑料件未注公差按照GB/T 14486-93 MT5等级：				MATERIAL	APsystems
>0-3	±0.20	>24-30	±0.50	PA66	
>3-6	±0.24	>30-40	±0.56		NAME
>6-10	±0.28	>40-50	±0.64		①
>10-14	±0.32	>50-65	±0.74		Y3-DC Connector Unlock Tool
>14-18	±0.38	>65-80	±0.86		
>18-24	±0.44	>80-100	±1.00		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET -- OF --		REV. 1.0	

2060401006_DC Male Connector Cap（MC4）

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE







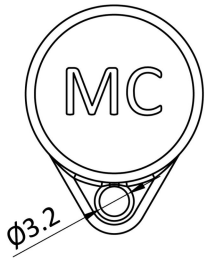
Notes:
1. Type：PV-SVK4；
2. Degree of protection：IP67；

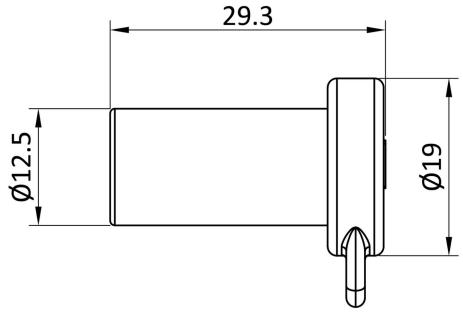
TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.5	MATERIAL TPE	APsystems ALTENERGY POWER
DWN.	UNIT mm	NAME DC Male Connector Cap (MC4)
CHK.	SHEET -- OF -- REV. 0.0	DRAWING NO. -

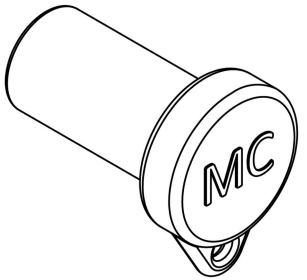
2060402006_DC Female Connector Cap（MC4）

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE









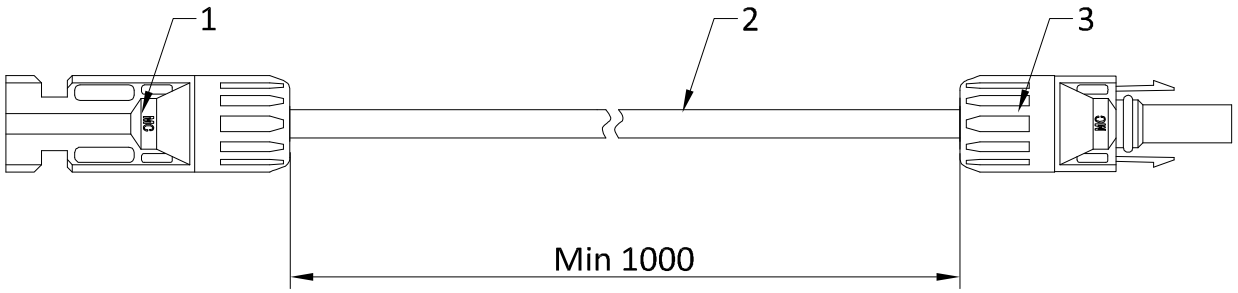
Notes:
1. Type：PV-BVK4；
2. Degree of protection：IP67；

TOLERANCES UNLESS OTHERWISE SPECIFIED ±0.5	MATERIAL TPE		APsystems ALTENERGY POWER
			NAME DC Female Connector Cap (MC4)
DWN.	UNIT mm		DRAWING NO. -
CHK.	SHEET -- OF --	REV. 0.0	

2310310274_1m DC Extension Cable（MC4）

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update cable type; Update dimensions	0.1	YFT 2022-9-14
②	Update cable type; Change manufactor	1.0	YFT 2022-11-16



	NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
	3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI	
①②	2	DC Cable	H1Z2Z2-K /PV wire		1	4.0mm²/12AWG, TUV/UL certification	
	1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI	

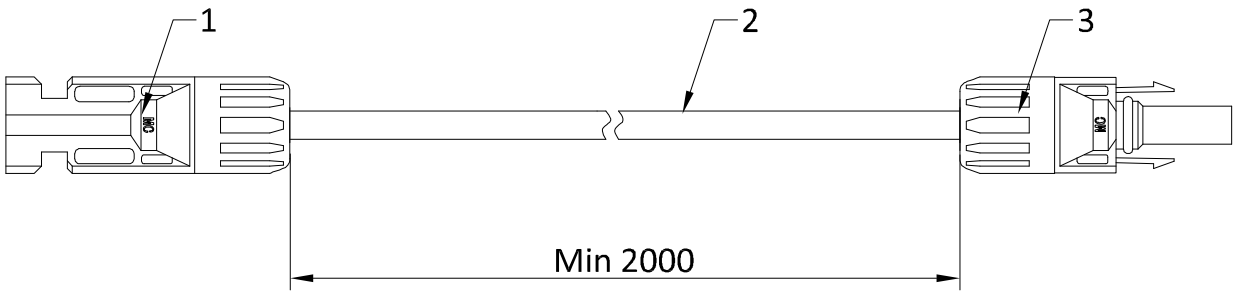
Notes:
1. The DC cable and connector connect firmly, can sustain 100N·60s tension
2. The pin concentric with plastic parts, ensure that there is no contradict phenomenon when male connector inserts into female connector

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	
>0-100	±5	>2500-3500	±45		APsystems ALTENERGY POWER
>100-500	±10	>3500-4500	±50		NAME
>500-900	±15	>4500-5500	±65		1m DC Extension Cable (MC4)
>900-1300	±25	>5500-6500	±80		
>1300-1800	±30	>6500-8000	±90		
>1800-2500	±35	>8000-10000	±100		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET --	OF --	REV. 1.0	

2310360214_2m DC Extension Cable（MC4）

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
②	Add alternative cable	0.2	YFT 2022-9-14
③	Add alternative cable	0.3	YFT 2022-11-24



NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI	
2	DC Cable	FLEX-SOL-EVO-DX 4.0		1	4.0mm², TUV/UL certification	
②③		62930 IEC 131/PV		1	4.0mm²/12AWG, TUV/UL certification	Alternative
		H1Z2Z2-K /PV wire		1		
1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI	

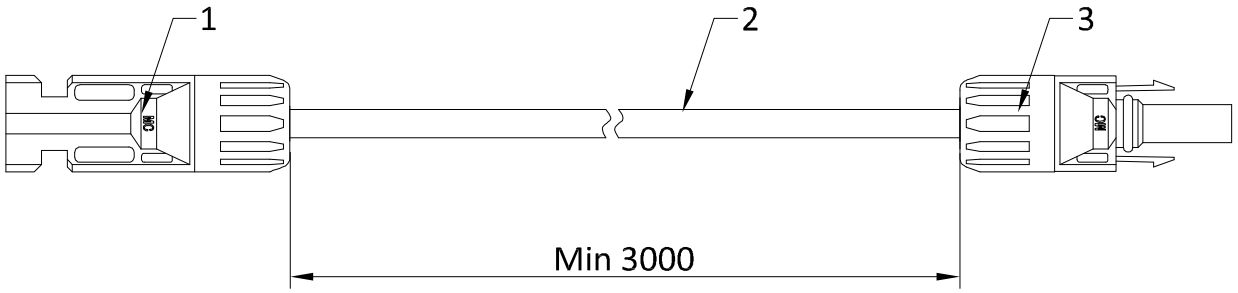
Notes:
1. The DC cable and connector connect firmly, can sustain 100N·60s tension
2. The pin concentric with plastic parts, ensure that there is no contradict phenomenon when male connector inserts into female connector

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	
>0-100	±5	>2500-3500	±45		APsystems ALTENERGY POWER
>100-500	±10	>3500-4500	±50		
>500-900	±15	>4500-5500	±65		NAME: 2m DC Extension Cable (MC4)
>900-1300	±25	>5500-6500	±80		
>1300-1800	±30	>6500-8000	±90		
>1800-2500	±35	>8000-10000	±100		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET -- OF --		REV. 0.3	

2310360224_3m DC Extension Cable (MC4)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Add alternative cable	0.1	YFT 2022-9-14
②	Update cable type; Change manufactor	1.0	YFT 2022-11-16



NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI	
①② 2	DC Cable	H1Z2Z2-K /PV wire		1	4.0mm²/12AWG, TUV/UL certification	
1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI	

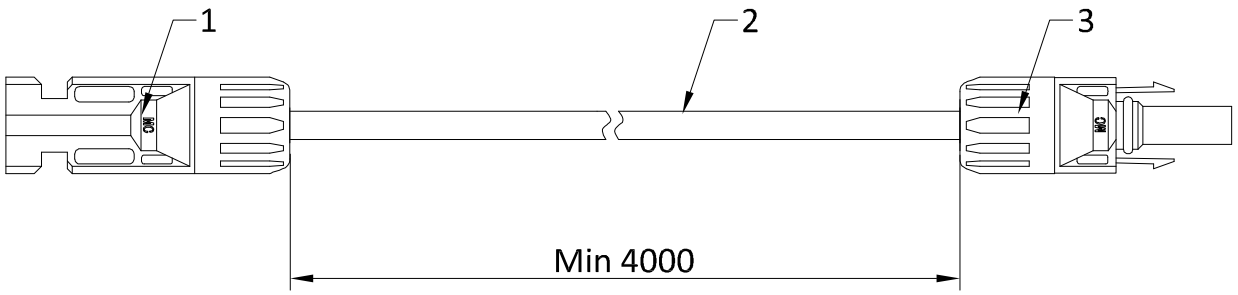
Notes:
1. The DC cable and connector connect firmly, can sustain 100N·60s tension
2. The pin concentric with plastic parts, ensure that there is no contradict phenomenon when male connector inserts into female connector

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	
>0-100	±5	>2500-3500	±45		APsystems ALTENERGY POWER
>100-500	±10	>3500-4500	±50		
>500-900	±15	>4500-5500	±65		NAME: 3m DC Extension Cable (MC4)
>900-1300	±25	>5500-6500	±80		
>1300-1800	±30	>6500-8000	±90		
>1800-2500	±35	>8000-10000	±100		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET _ OF _		REV. 1.0	

2310370236_4m DC Extension Cable (MC4)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI	
2	DC Cable	H1Z2Z2-K /PV wire		1	4.0mm²/12AWG, TUV/UL certification	
1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI	

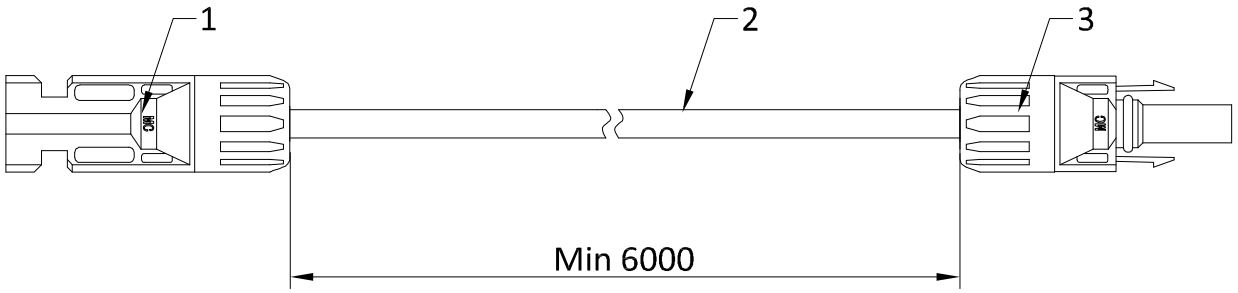
Notes:
1. The DC cable and connector connect firmly, can sustain 100N·60s tension
2. The pin concentric with plastic parts, ensure that there is no contradict phenomenon when male connector inserts into female connector

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	
>0-100	±5	>2500-3500	±45		APsystems ALTENERGY POWER
>100-500	±10	>3500-4500	±50		
>500-900	±15	>4500-5500	±65		NAME: 4m DC Extension Cable (MC4)
>900-1300	±25	>5500-6500	±80		
>1300-1800	±30	>6500-8000	±90		
>1800-2500	±35	>8000-10000	±100		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET -- OF --		REV. 0.0	

2310370246_6m DC Extension Cable (MC4)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



NO.	NAME	TYPE	MAT.	QTY.	DESCRIPTION	REMARK
3	DC Connector (female)	MC4 PV-KBT4/6II		1	Female, STAUBLI	
2	DC Cable	H1Z2Z2-K /PV wire		1	4.0mm²/12AWG, TUV/UL certification	
1	DC Connector (male)	MC4 PV-KST4/6II		1	Male, STAUBLI	

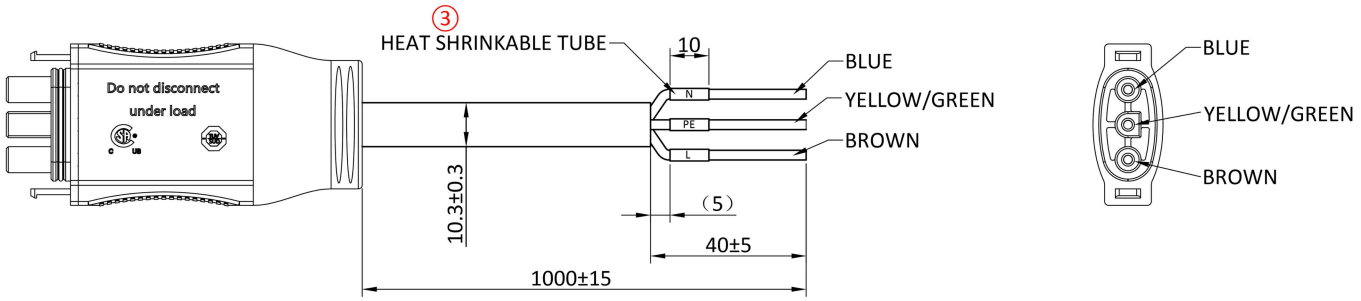
Notes:
1. The DC cable and connector connect firmly, can sustain 100N·60s tension
2. The pin concentric with plastic parts, ensure that there is no contradict phenomenon when male connector inserts into female connector

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	
>0-100	±5	>2500-3500	±45		APsystems ALTENERGY POWER
>100-500	±10	>3500-4500	±50		
>500-900	±15	>4500-5500	±65		NAME: 6m DC Extension Cable (MC4)
>900-1300	±25	>5500-6500	±80		
>1300-1800	±30	>6500-8000	±90		
>1800-2500	±35	>8000-10000	±100		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET -- OF --		REV. 0.0	

2334076132_ Single Phase Br. Ext-cable (2.5mm²,1m)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update electrical parameters	0.1	LJ 2019-2-28
②	Change the part name	0.2	YFT 2019-7-26
③	Change the label to heat shrinkable tube	0.3	YFT 2020-5-22
④	Update part name; Update electrical parameters	0.4	YFT 2022-6-13
⑤	Update electrical parameters	0.5	YFT 2022-6-30



WIRE RUN LIST		
mm²	COLOR	LABEL
2.5	BROWN	L
	BLUE	N
	YELLOW/GREEN	PE

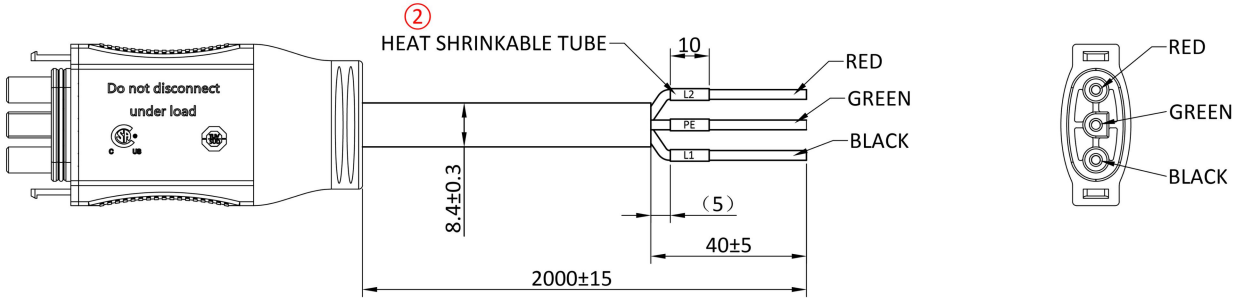
Notes:
1. Cable:◂VDE▸ H07RN-F 3G2.5mm2 KTL SU01048-6004 SAA101170EA GP-85-PCP
0.6/1.0KV HEAVY DUTY 450/750V WUXI ZHONGHUI WIRE & CABLE CO ., LTD
CCC A005618 60245 IEC66 (YCW) 3×2.5mm2 450/750V WUXI SHI ZHONGHUI
XIANLAN YOUXIAN GONGSI
2. Waterproof rating: IP67;
3. Wiring: BROWN-L, BLUE-N, YELLOW/GREEN-PE;
①④⑤ 4.Electrical parameters:
Working voltage rating: 600V
Working current rating cable 23A
Resistance voltage: AC 2500V 50mA 1 Minute
Conductor resistance: 7.98Ω/km

TOLERANCES UNLESS OTHERWISE SPECIFIED		MATERIAL	
>0-100 ±5	>2500-3500 ±45		APsystems ALTENERGY POWER
>100-500 ±10	>3500-4500 ±50		
>500-900 ±15	>4500-5500 ±65		NAME ②④
>900-1300 ±25	>5500-6500 ±80		Single Phase Br. Ext-Cable(2.5mm²,1m)
>1300-1800 ±30	>6500-8000 ±90		
>1800-2500 ±35	>8000-10000 ±100		DRAWING NO.
DWN.		UNIT mm	
CHK.		SHEET -- OF --	REV. 0.5

2334075242_ Split Phase Br. Ext-cable (18AWG,TC, 2m)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update electrical parameters and cable	0.1	LJ 2019-2-28
②	Change the label to heat shrinkable tube	0.2	YFT 2020-5-22
③	Update part name; Update electrical parameters	0.3	YFT 2022-6-13



WIRE RUN LIST		
AWG	COLOR	LABEL
18	BLACK	L1
	RED	L2
	GREEN	PE

Notes:

① 1. Cable:E489601 TYPE TC-ER 3C/18AWG 90°C WET OR DRY 600V OIL RES
--- c TYPE CIC 90°C 600V FT4 DIR BUR SUN RES -40°C COLD IMPACT AND COLD BEND HWATEK

2. Waterproof rating: IP67;

3. Wiring: BLACK-L1, RED-L2, GREEN-PE;

①③ 4.Electrical parameters:
Working voltage rating: 600V
Working current rating cable 10A
Resistance voltage: AC 2500V 50mA 1 Minute
Conductor resistance: 21.8Ω/km

TOLERANCES UNLESS OTHERWISE SPECIFIED			
>0-100	±5	>2500-3500	±45
>100-500	±10	>3500-4500	±50
>500-900	±15	>4500-5500	±65
>900-1300	±25	>5500-6500	±80
>1300-1800	±30	>6500-8000	±90
>1800-2500	±35	>8000-10000	±100

MATERIAL

DWN.

CHK.

UNIT mm

SHEET -- OF --

REV. 0.3

APsystems ALTENERGY POWER

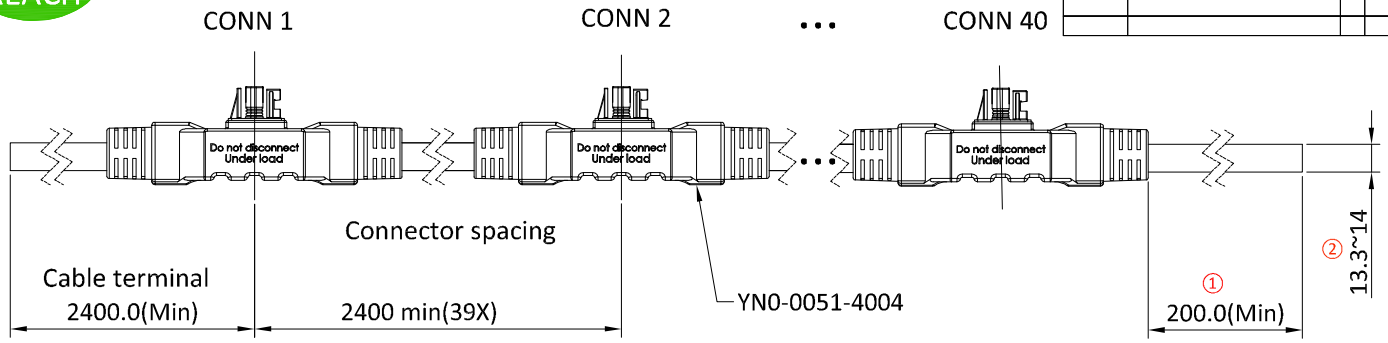
NAME ③
Split Phase Br. Ext-cable (18AWG,TC,2m)

DRAWING NO.

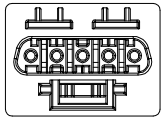
2322604802_3-phase 5C Bus Cable (2.5mm²,H07,2.4m)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update dimensions	0.1	YFT 2022-10-21
②	Change cable the outer diameter and printing	0.2	ZZH 2023-5-12
③	Change cable printing	1.0	JZJ 2024-7-22

RoHS
REACH

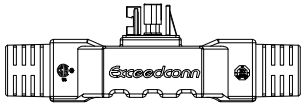


Connector pin view
2:1



PE N L3 L2 L1
YELLOW/GREEN BLUE GRAY BLACK BROWN

Connector back view



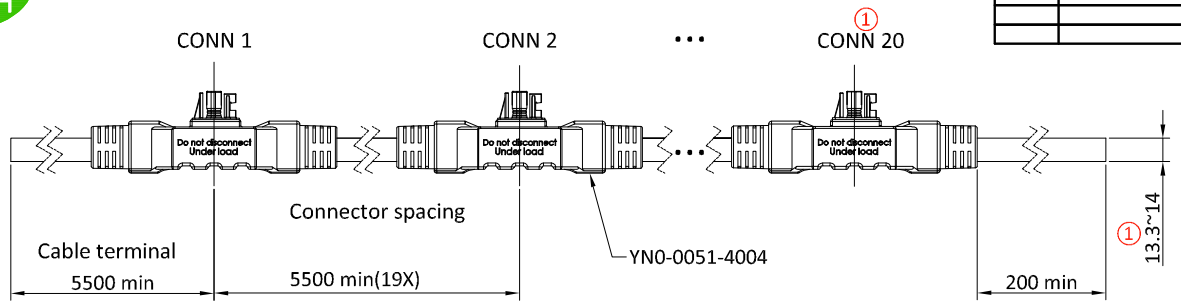
NOTES:
Electric testing:
②③ CABLE: 5C×2.5mm2 H07RN-F，VDE certification, UV resistance.
CABLE MARKING：◁VDE▷ H07RN-F 5G2.5mm² 450/750V SUMTUNG CABLE TECHNOLOGY CO.,LTD. <AH>-LF-
2. Dielectric withstand voltage test: DC 4000V，leakage current 5mA, duration 60s;
3. Max. Contact resistance(20℃): 7.98Ω/km;
4. Insulation resistance: ≥500MΩ;
5. Wiring: BROWN--L1, BLACK--L2， GRAY--L3， BLUE--N, YELLOW/GREEN--PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1.Waterproof rating: IP67;
2.Environmental requirements: comply with rohs requirements;
Others:
1.A series of bus cable contains 40T, each connector spacing is 2400mm;
2.The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3.The surface has no abrasion, scratches, deformation and other defects.

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems
X.	±3.00	X°	±3.00°	-	
.X	±2.00	.X°	±2.00°		NAME
.XX	±1.00	.XX°	±1.00°		3-phase 5C Bus Cable (2.5mm²,H07,2.4m)
.XXX	±0.50	.XXX°	±0.50°		
DWN.				UNIT mm	DRAWING NO.
CHK.				SHEET -- OF --	REV. 1.0

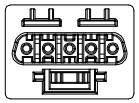
2322555602_3-phase 5C Bus Cable(2.5mm²,H07,5.5m)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Change the number of Connector 18~20, Change cable the outer diameter and printing	0.1	ZZH 2023/5/12
②	Change cable printing	1.0	JZJ 2024/7/22

RoHS
REACH



Connector pin view
2:1



PE N L3 L2 L1
YELLOW/GREEN BLUE GRAY BLACK BROWN

Connector back view



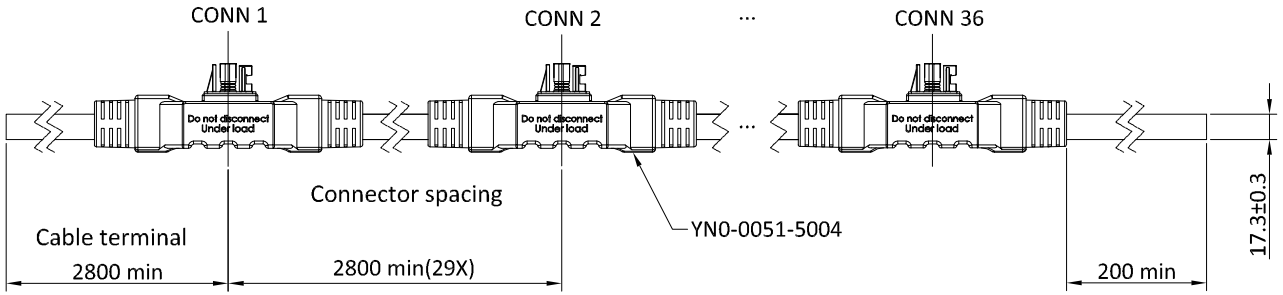
NOTES:
Electric testing:
1. CABLE :5C×2.5mm2 H07RN-F，VDE certification, UV resistance.
①② CABLE MARKING：◁VDE▷ H07RN-F 5G2.5mm² 450/750V SUMTUNG CABLE TECHNOLOGY CO.,LTD. <AH>-LF-
2. Dielectric withstand voltage test: DC 4000V, leakage current 5mA, duration 60s;
3. Max Contact resistance(20℃): 7.98Ω/km;
4. Insulation resistance: ≥500MΩ;
5. Wiring: BROWN--L1, BLACK--L2， GRAY--L3， BLUE--N, YELLOW/GREEN--PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1. Waterproof rating: IP67;
2. Environmental requirements: comply with rohs requirements;
Others:
1.A series of bus cable contains 20T, each connector spacing is 5500mm;
2.The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3.The surface has no abrasion, scratches, deformation and other defects.

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems
X.	±3.00	X°	±3.00°	-	
.X	±2.00	.X°	±2.00°		NAME
.XX	±1.00	.XX°	± .00°		3-phase 5C Bus Cable (2.5mm²,H07,5.5m)
.XXX	±0.50	.XXX°	±0.50°		
DWN.				UNIT mm	DRAWING NO.
CHK.				SHEET -- OF -- REV. 1.0	

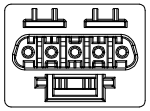
2322289182_3-phase 5C Bus Cable (4mm²,H07,2.8m)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



Connector pin view
2:1



PE N L3 L2 L1
YELLOW/GREEN BLUE GRAY BLACK BROWN

Connector back view



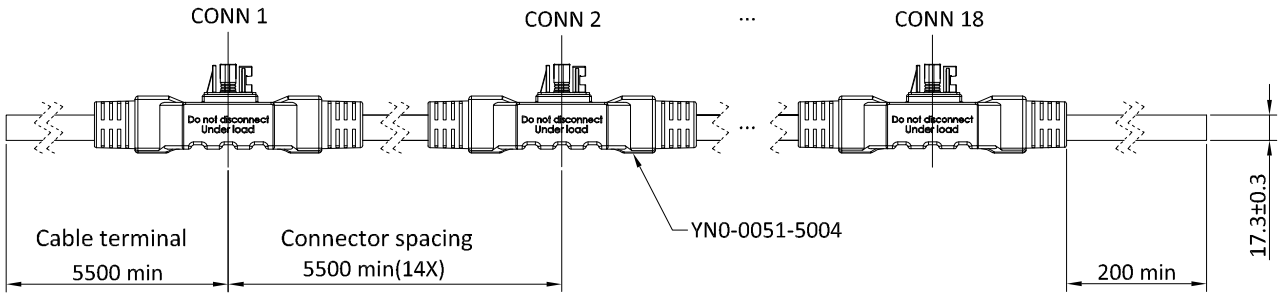
Notes:
Electric testing:
1. Cable: 5C×4mm² H07RN-F，UV resistance.
Cable marking： 60245IEC66(YCW) 450/750V 5×4mm²
◁VDE▷ H07RN-F 5G4mm² SUMTUNG CABLE TECHNOLOGY CO.,LTD. -LF-
2. Dielectric withstand voltage test: DC 4000V，leakage current 5mA, duration 60s;
3. Working voltage rating: 600V;
4. Working current rating: 30A;
5. Max. Contact resistance(20℃): 4.95Ω/km;
6. Insulation resistance: ≥500MΩ;
7.Wiring: BROWN--L1, BLACK--L2，GRAY--L3，BLUE--N, YELLOW/GREEN--PE;
Mechanical property:
1.Insert and draw frequency: ≥50 times;
Environmental performance:
1.Waterproof rating: IP67;
2.Environmental requirements: comply with rohs requirements;
Others:
1.A series of bus cable contains 30T, each connector spacing is 2800mm;
2.The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3.The surface has no abrasion, scratches, deformation and other defects.

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		
X.	±3.00	X°	±3.00°		APsystems	
.X	±2.00	.X°	±2.00°			NAME
.XX	±1.00	.XX°	± .00°			3-phase 5C Bus Cable (4mm²,H07,2.8m)
.XXX	±0.50	.XXX°	±0.50°			
DWN.				UNIT mm		DRAWING NO.
CHK.				SHEET -- OF --	REV. 0.0	

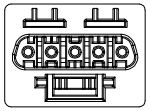
2322559192_3-phase 5C Bus Cable (4mm²,H07,5.5m)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH



Connector pin view
2:1



PE N L3 L2 L1
YELLOW/GREEN BLUE GRAY BLACK BROWN

Connector back view



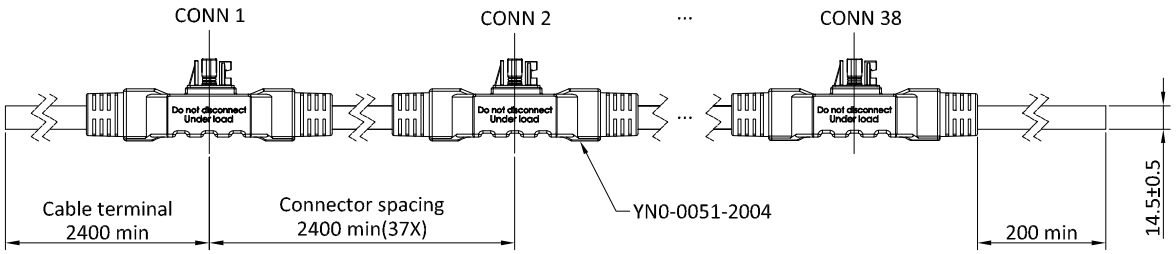
Notes:
Electric testing:
1.Cable: 5C×4mm² H07RN-F，UV resistance.
Cable marking: 60245IEC66(YCW) 450/750V 5×4mm²
VDE H07RN-F 5G4mm² SUMTUNG CABLE TECHNOLOGY CO.,LTD. -LF-
2.Dielectric withstand voltage test: DC 4000V，leakage current 5mA, duration 60s;
3.Working voltage rating: 600V;
4.Working current rating: 30A;
5.Max. Contact resistance(20°C): 4.95Ω/km;
6.Insulation resistance: ≥500MΩ;
7.Wiring: BROWN--L1, BLACK--L2，GRAY--L3，BLUE--N, YELLOW/GREEN--PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1.Waterproof rating: IP67;
2.Environmental requirements: comply with rohs requirements;
Others:
1.A series of bus cable contains 15T, each connector spacing is 5500mm;
2.The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3.The surface has no abrasion, scratches, deformation and other defects.

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
X.	±3.00	X°	±3.00°		
.X	±2.00	.X°	±2.00°		NAME
.XX	±1.00	.XX°	± .00°		3-phase 5C Bus Cable (4mm²,H07,5.5m)
.XXX	±0.50	.XXX°	±0.50°		
DWN.				UNIT mm	DRAWING NO.
CHK.				SHEET -- OF -- REV. 0.0	

2322604502_3-phase 5C Bus Cable(12AWG,TC,2.4m)

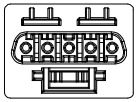
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH



Notes:
Electric testing:
1. Cable: 5C×12AWG TC-ER，UV resistance.
Cable marking：E489601 (UL) TYPE TC-ER 5C/12AWG 90℃ WET OR DRY 600V---C(UL) TYPE CIC 90℃ 600V FT1 XLPE 5C/12AWG DIR BUR SUN RES COLD BEND HWATEK CE
2. Dielectric withstand voltage test: DC 4000V, leakage current 5mA, duration 60s;
3. Working voltage rating: 600V;
4. Working current rating: 30A;
5. Max. Contact resistance(20℃): 5.43Ω/km;
6. Insulation resistance: ≥500MΩ;
7.Wiring: BLACK--L1, RED-L2, BLUE--L3, WHITE--N, GREEN--PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1.Waterproof rating: IP67;
2.Environmental requirements: comply with rohs requirements;
Others:
1. A series of bus cable contains 38T, each connector spacing is 2400mm;
2.The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3.The surface has no abrasion, scratches, deformation and other defects.

Connector pin view
2:1



PE N L3 L2 L1
GREEN WHITE BLUE RED BLACK

Connector back view

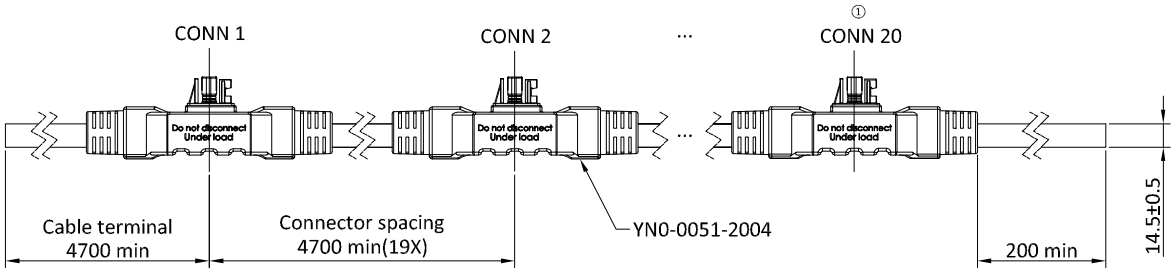


TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		
X.	±3.00	X°	±3.00°			APsystems ALTENERGY POWER
.X	±2.00	.X°	±2.00°			NAME: 3-phase 5C Bus Cable (12AWG,TC,2.4m)
.XX	±1.00	.XX°	±1.00°			
.XXX	±0.50	.XXX°	±0.50°			
DWN.				UNIT mm		DRAWING NO.
CHK.				SHEET -- OF --	REV. 0.0	

2322904502_3-phase 5C Bus Cable(12AWG,TC,4.6m)

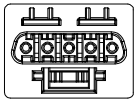
RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Change the number of Connector 18→20	0.1	ZZH 2023/5/8



Notes:
Electric testing:
1. Cable: 5C×12AWG TC-ER, UV resistance.
Cable marking: E489601 (UL) TYPE TC-ER 5C/12AWG 90°C WET OR DRY 600V--C(UL) TYPE CIC 90°C 600V FT1 XLPE 5C/12AWG DIR BUR SUN RES COLD BEND HWATEK CE
2. Dielectric withstand voltage test: DC 4000V, leakage current 5mA, duration 60s;
3. Working voltage rating: 600V;
4. Working current rating: 30A;
5. Max. Contact resistance(20℃): 5.43Ω/km;
6. Insulation resistance: ≥500MΩ;
7.Wiring: BLACK--L1, RED-L2, BLUE--L3, WHITE--N, GREEN--PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1.Waterproof rating: IP67;
2.Environmental requirements: comply with rohs requirements;
Others:
1. A series of bus cable contains 20T, each connector spacing is 4700mm;
2.The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3.The surface has no abrasion, scratches, deformation and other defects.

Connector pin view
2:1



PE N L3 L2 L1
GREEN WHITE BLUE RED BLACK

Connector back view

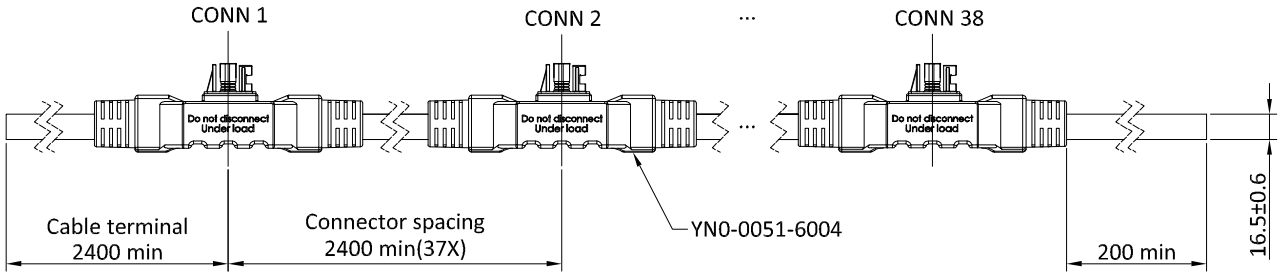


TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		
X.	±3.00	X°	±3.00°			APsystems ALTENERGY POWER
.X	±2.00	.X°	±2.00°			NAME: 3-phase 5C Bus Cable (12AWG,TC,4.6m)
.XX	±1.00	.XX°	±1.00°			
.XXX	±0.50	.XXX°	±0.50°			DRAWING NO.
DWN.				UNIT mm		
CHK.				SHEET -- OF --	REV. 0.1	

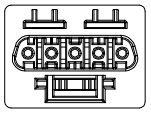
2322609202_3-phase 5C Bus Cable (10AWG,TC,2.4m)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH



Connector pin view
2:1



PE N L3 L2 L1
GREEN WHITE BLUE RED BLACK

Connector back view



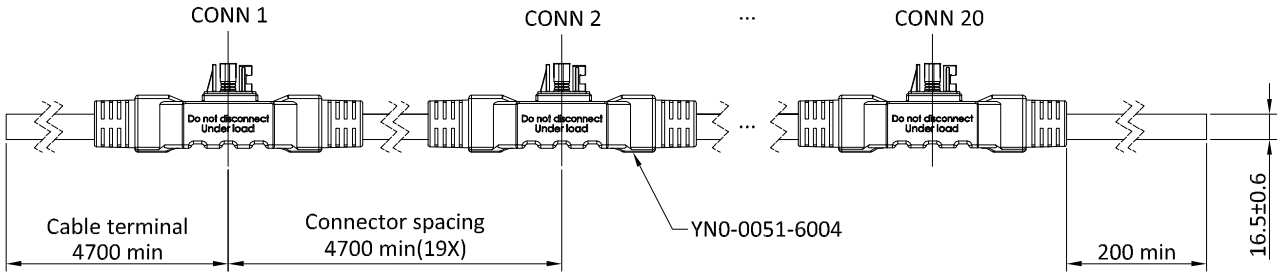
Notes:
Electric testing:
1. Cable: 5C×10AWG TC-ER, UV resistance.
Cable marking: E489601 (UL) TYPE TC-ER 5C/10AWG 90°C WET OR DRY 600V---C(UL) TYPE CIC 90°C 600V FT1 XLPE 5C/10AWG DIR BUR SUN RES COLD BEND HWATEK CE
2. Dielectric withstand voltage test: DC 4000V, leakage current 5mA, duration 60s;
3. Working voltage rating: 600V;
4. Working current rating: 40A;
5. Max. Contact resistance(20°C): 3.409Ω/km;
6. Insulation resistance: ≥500MΩ;
7. Wiring: BLACK—L1, RED-L2, BLUE—L3, WHITE--N, GREEN—PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1. Waterproof rating: IP67;
2. Environmental requirements: comply with rohs requirements;
Others:
1. A series of bus cable contains 38T, each connector spacing is 2400mm;
2. The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3. The surface has no abrasion, scratches, deformation and other defects.

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		
X.	±3.00	X°	±3.00°		APsystems ALTENERGY POWER	
.X	±2.00	.X°	±2.00°		NAME	3-phase 5C Bus Cable (10AWG,TC,2.4m)
.XX	±1.00	.XX°	±1.00°			
.XXX	±0.50	.XXX°	±0.50°			
DWN.				UNIT mm		DRAWING NO.
CHK.				SHEET -- OF --	REV. 0.0	

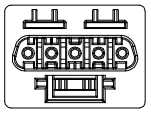
2322909202_3-phase 5C Bus Cable (10AWG,TC,4.6m)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH



Connector pin view
2:1



PE N L3 L2 L1
GREEN WHITE BLUE RED BLACK

Connector back view



Notes:
Electric testing:
1. Cable: 5C×10AWG TC-ER, UV resistance.
Cable marking: E489601 (UL) TYPE TC-ER 5C/10AWG 90°C WET OR DRY 600V---C(UL) TYPE CIC 90°C 600V FT1 XLPE 5C/10AWG DIR BUR SUN RES COLD BEND HWATEK CE
2. Dielectric withstand voltage test: DC 4000V, leakage current 5mA, duration 60s;
3. Working voltage rating: 600V;
4. Working current rating: 40A;
5. Max. Contact resistance(20°C): 3.409Ω/km;
6. Insulation resistance: ≥500MΩ;
7. Wiring: BLACK—L1, RED-L2, BLUE—L3, WHITE--N, GREEN—PE;
Mechanical property:
1. Insert and draw frequency: ≥50 times;
Environmental performance:
1. Waterproof rating: IP67;
2. Environmental requirements: comply with rohs requirements;
Others:
1. A series of bus cable contains 20T, each connector spacing is 4700mm;
2. The 200N·60S tension at the t connector does not affect electrical and waterproof performance;
3. The surface has no abrasion, scratches, deformation and other defects.

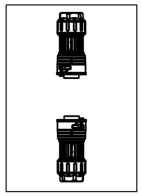
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL		
X.	±3.00	X°	±3.00°		APsystems ALTENERGY POWER	
.X	±2.00	.X°	±2.00°		NAME	3-phase 5C Bus Cable (10AWG,TC,4.6m)
.XX	±1.00	.XX°	±1.00°			
.XXX	±0.50	.XXX°	±0.50°			
DWN.				UNIT mm		DRAWING NO.
CHK.				SHEET -- OF --	REV. 0.0	

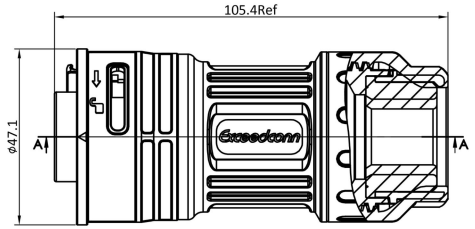
2301511002_AC Connector(5C,40A,male)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH

Instruction



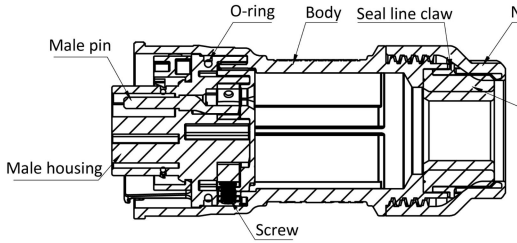


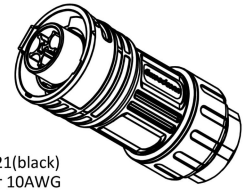


Wrench



剖面 A-A



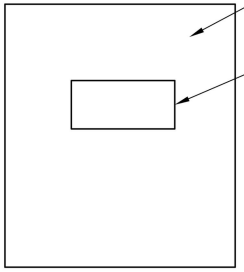


Two seals
Seal inner diameter ϕ21(black)
For cable size:4mm² or 10AWG

Seal inner diameter ϕ16(grey)
For cable size:2.5mm² ,12AWG or 14AWG

Notes:
Electric testing:
1.Rated Voltage:600V;
2.Rated Current:40A;
3.Contact Resistance:≤50mΩ;
4.Dielectric Withstanding Voltage:3000V
5.Insulation resistance：≥500MΩ;
Mechanical property:
1.Mating Cycle：≥500次;
2.Applicable cables：2.5mm²,4mm²,10AWG,12AWG,14AWG
Environmental performance:
1.Waterproof Rate：IP67 1m-30min(After mating);
2.Operating Temperature：-40°C~105°C
Others:
1.Type No:EN200-2105-101-02

Packing



Part Number ： 2301511002
Product Name: AC Connector（5C,40A,male）

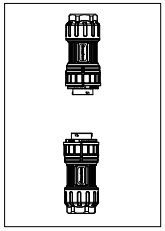
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems
X.	±1.00	X	±3.00°		
.X	±0.50	.X	±2.00°		NAME
.XX	±0.20	.XX	±1.00°		AC Connector（5C,40A,male）
.XXX	±0.10	.XXX	±0.50°		
DWN.		UNIT mm			DRAWING NO.
CHK.		SHEET -- OF --		REV. 0.2	

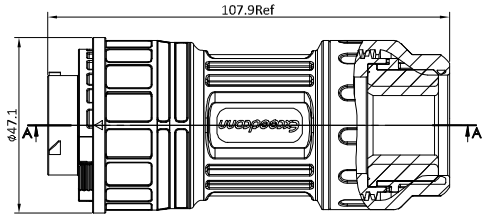
2301512002_AC Connector(5C,40A,female)

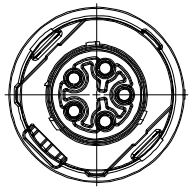
RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Add instruction、wrench、seal instruction	0.1	ZZH 2023-4-20
②	Update applicable cables(add 12AWG)	0.2	ZZH 2024-5-23

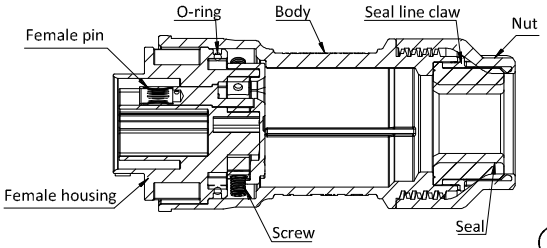
① Instruction

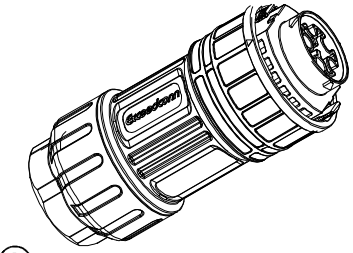




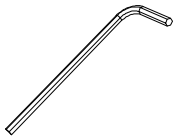


Section A-A





① Wrench

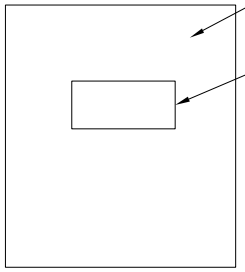


① ② Two seals
Seal inner diameter Φ21(black)
For cable size:4mm² or 10AWG

Seal inner diameter Φ16(grey)
For cable size:2.5mm² ,12AWG or 14AWG

Notes:
Electric testing:
1.Rated Voltage:600V;
2.Rated Current:40A;
3.Contact Resistance:≤50mΩ;
4.Dielectric Withstanding Voltage:3000V
5.Insulation resistance：≥500MΩ;
Mechanical property:
1.Mating Cycle：≥500;
2.Cable Gauge:2.5-10mm²
Environmental performance:
1.Waterproof Rating：IP67 1m-30min(After mating);
2.Operating Temperature：-40°C~105°C
Others:
1.Type No:EN200-2205-101

Packing



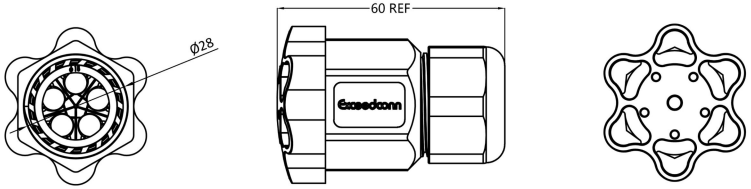
Part Number : 2301512002
Product Name: AC Connector（5C,40A,female）

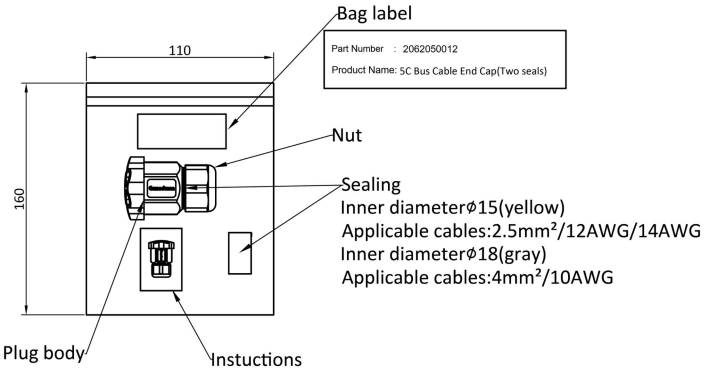
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
X. ±1.00		X ±3.00°		-	NAME: AC Connector（5C,40A,female）
.X ±0.50		.X ±2.00°			
.XX ±0.20		.XX ±1.00°			
.XXX ±0.10		.XXX ±0.50°			
DWN.		UNIT mm			DRAWING NO. -
CHK.		SHEET --	OF --	REV. 0.2	

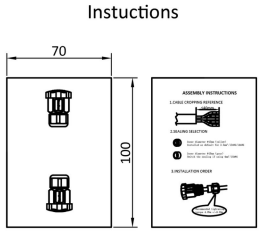
2062050012_5C Bus Cable End Cap(Two seals)

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE

RoHS
REACH







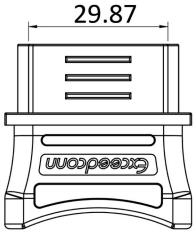
Notes:
Mechanical:
1. Cable and Connector Retention Force:≥120N;
2. Applicable cables:2.5mm², 4mm², 10AWG, 12AWG, 14AWG
3. Sealing Inner diameter: Φ15/18mm;
Environmental:
1. Waterproof Rate: IP68 1m 1H;
2. Application Temperature: -40℃~+85℃;
Others:
1. Type No:EN050-1423-00

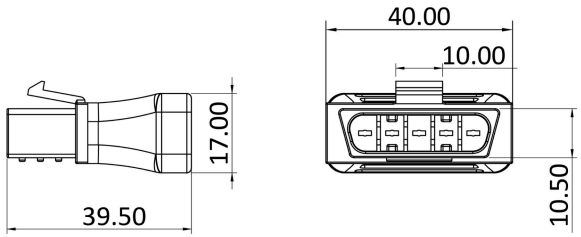
TOLERANCES UNLESS OTHERWISE SPECIFIED	MATERIAL	APsystems ALTENERGY POWER
X. ±3.00 X° ±3.00° .X ±2.00 .X° ±2.00° .XX ±1.00 .XX° ± .00° .XXX ±0.50 .XXX° ±0.50°		NAME: 5C Bus Cable End Cap(Two seals)
DWN.	UNIT mm	DRAWING NO.
CHK.	SHEET -- OF -- REV. 1.0	

2061252032_5-wire Bus Cable T-CONN Cap

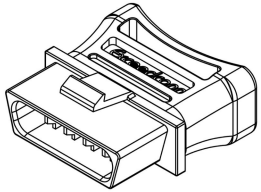
RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE









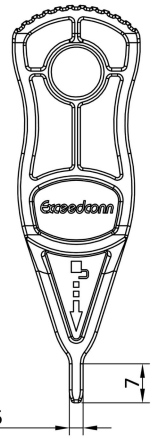
Notes:
1. Type: MIH-1-01;
2. Waterproof Rate: IP67;
3. Mating Cycle: ≥50;
4. Part Retention Force: 100N;

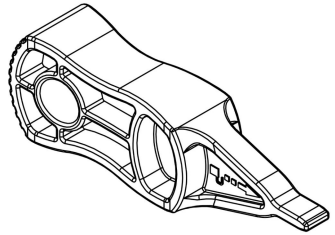
TOLERANCES UNLESS OTHERWISE SPECIFIED X. ±2.00 .X ±1.00 .XX ±0.64 .XXX ±0.38	MATERIAL -	APsystems ALTENERGY POWER
		NAME 5-wire Bus Cable T-CONN Cap
DWN.	UNIT mm	DRAWING NO. -
CHK.	SHEET -- OF -- REV. 0.0	

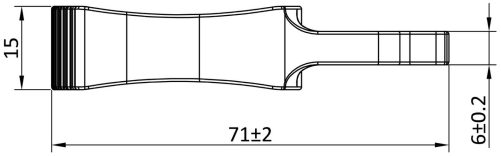
2353000002_5C Connector unlock tool

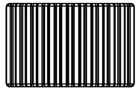
RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Appearance change, name change.	1.0	ZZH 2023/3/31









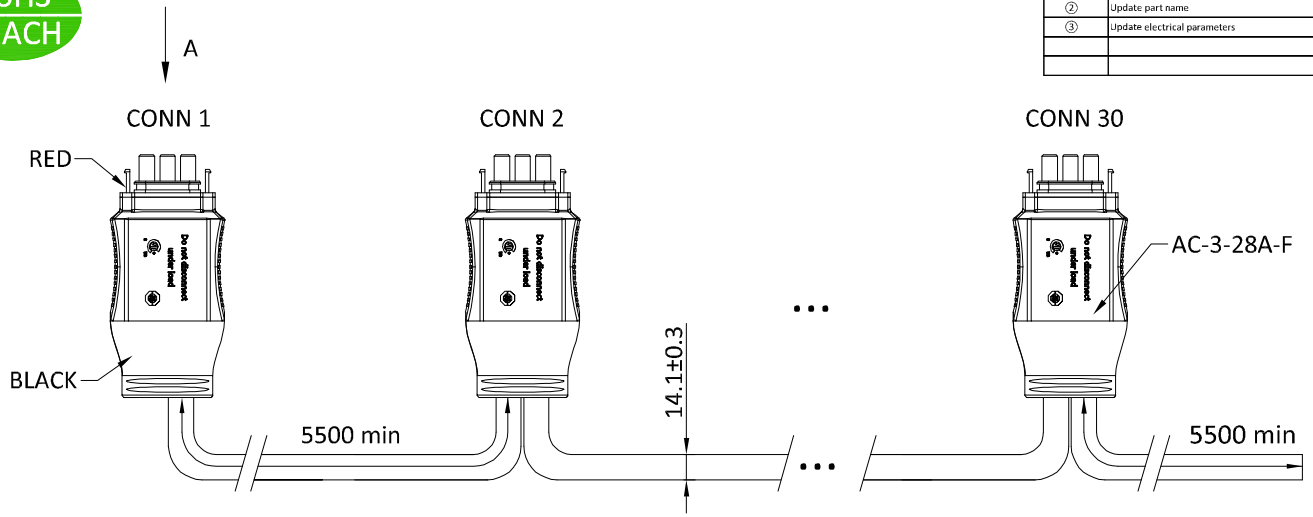
Technical Data:
1. Materal: PBT
2. Color: Black

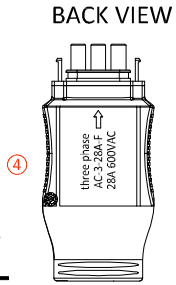
TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL	APsystems ALTENERGY POWER
X.	±1.00	X°	±3.00°	PBT	NAME
.X	±0.50	.X°	±2.00°		5C Connector Unlock Tool
.XX	±0.20	.XX°	± .00°		
.XXX	±0.10	.XXX°	±0.50°		
DWN.				UNIT mm	DRAWING NO.
CHK.				SHEET -- OF --	REV. 1.0

2322030813_3-phase Bus Cable(4mm²,H07,5.5m)

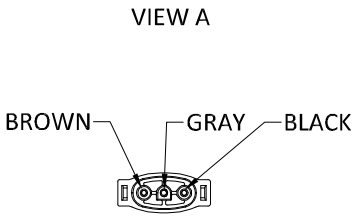
CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE
①	Update appearance; Update part name	0.1	YFT 2022-6-9
②	Update part name	0.2	YFT 2022-6-13
③	Update electrical parameters	0.3	YFT 2022-6-30

RoHS
REACH





④



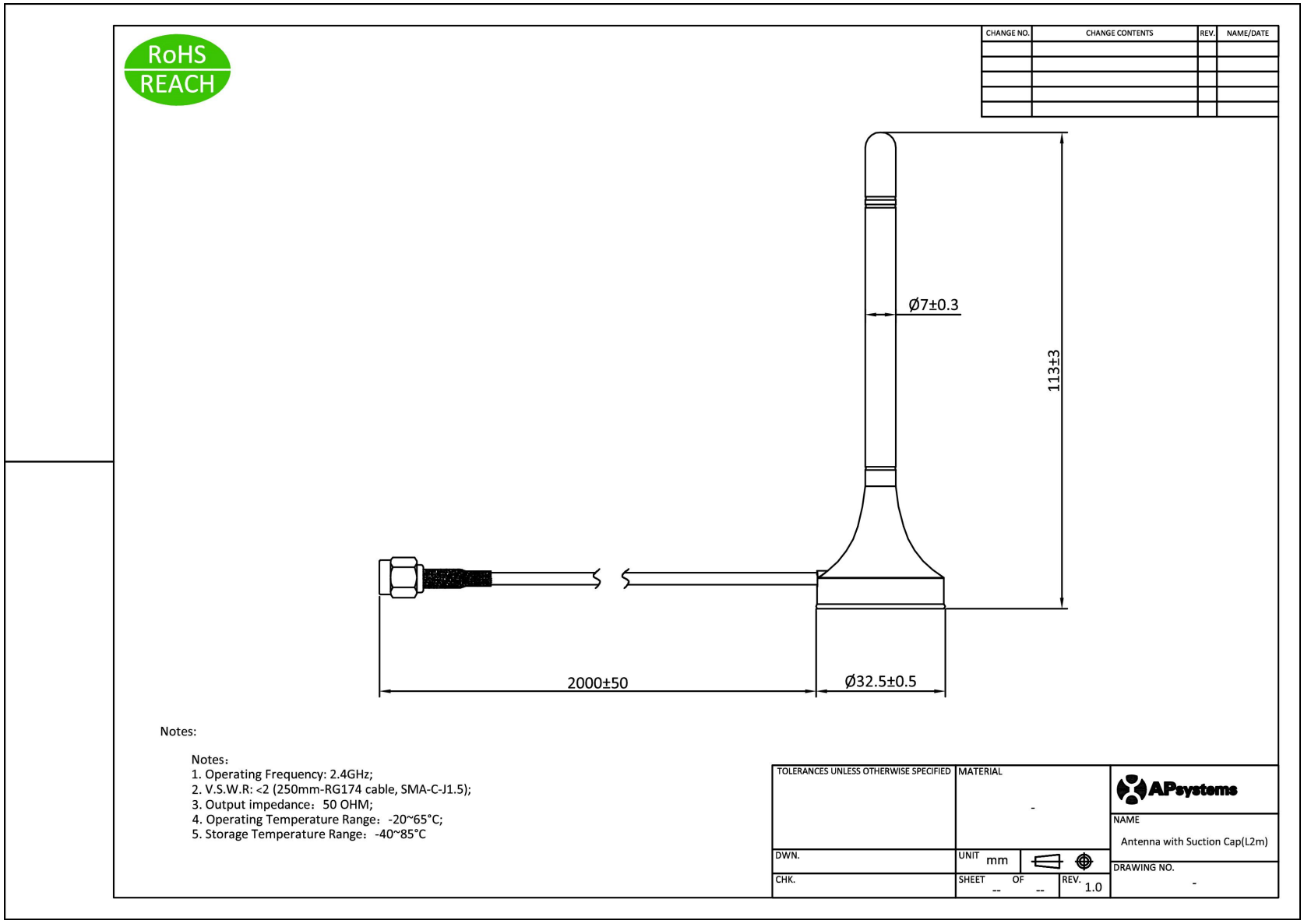
Notes:

1. Cable marking: ◄VDE►40020334 H07RN-F 450/750V 3×4mm² KTL SU01048-6004 SAA202714 GP-85-PCP 0.6/1.0KV HEAVY DUTY CCC A005618 60245 IEC 66(YCW) 450/750V 3×4mm² WUXI ZHONGHUI WIRE & CABLE CO., LTD CE Three-phase
2. Waterproof rating: IP67
3. A series of bus cable contains 30 connectors, each connector spacing is 5500mm
4. Wiring: BROWN-L1, BLACK-L2, GRAY-L3
5. Electrical parameters:
   Working voltage rating: 600V
   Working current rating cable 28A
   Resistance voltage: AC 2500V 50mA 1 Minute
   Conductor resistance: 4.95Ω/km

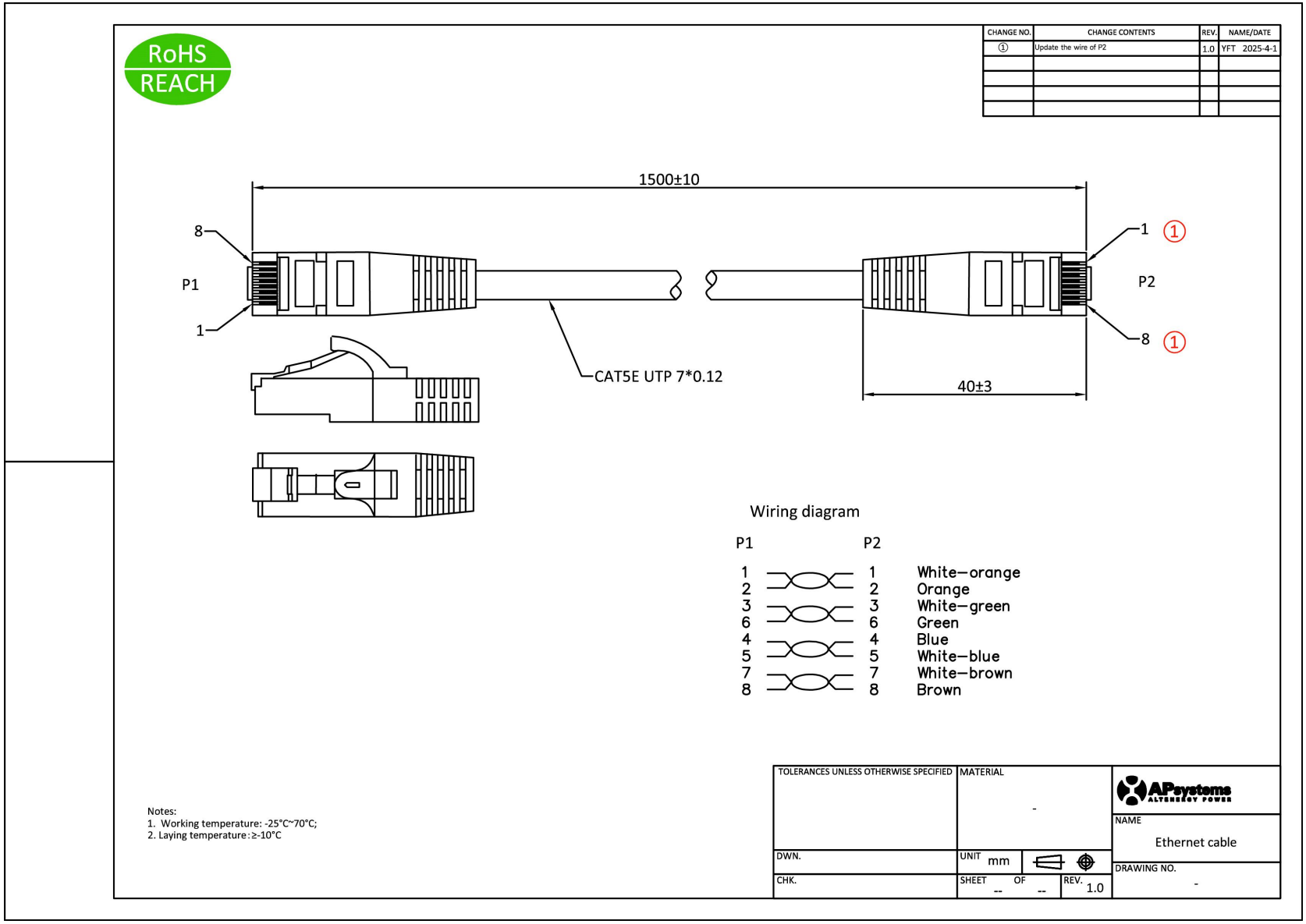
③

TOLERANCES UNLESS OTHERWISE SPECIFIED				MATERIAL			
>0-100	±5	>2500-3500	±45				
>100-500	±10	>3500-4500	±50				
>500-900	±15	>4500-5500	±65				
>900-1300	±25	>5500-6500	±80				
>1300-1800	±30	>6500-8000	±90				
>1800-2500	±35	>8000-10000	±100				
DWN.				UNIT mm		NAME	①
CHK.				SHEET --	OF --	REV. 0.3	3-phase Bus Cable (4mm²,H07,5.5m)
						DRAWING NO.	

Antenna with Suction Cap(L2m)



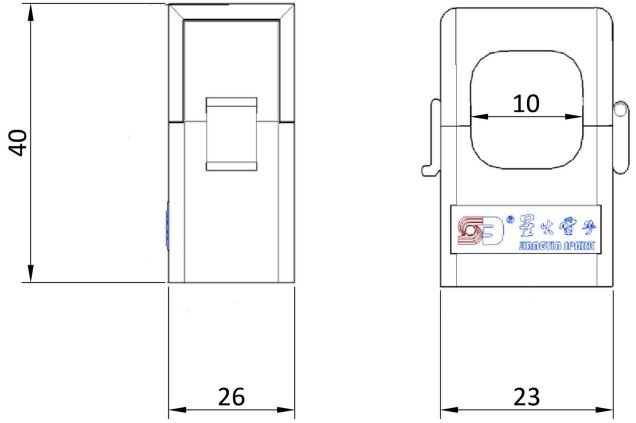
Ethernet cable

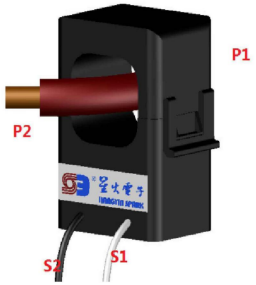


18083020112_Current Transformer (80A/26.6mA)

RoHS
REACH

CHANGE NO.	CHANGE CONTENTS	REV.	NAME/DATE



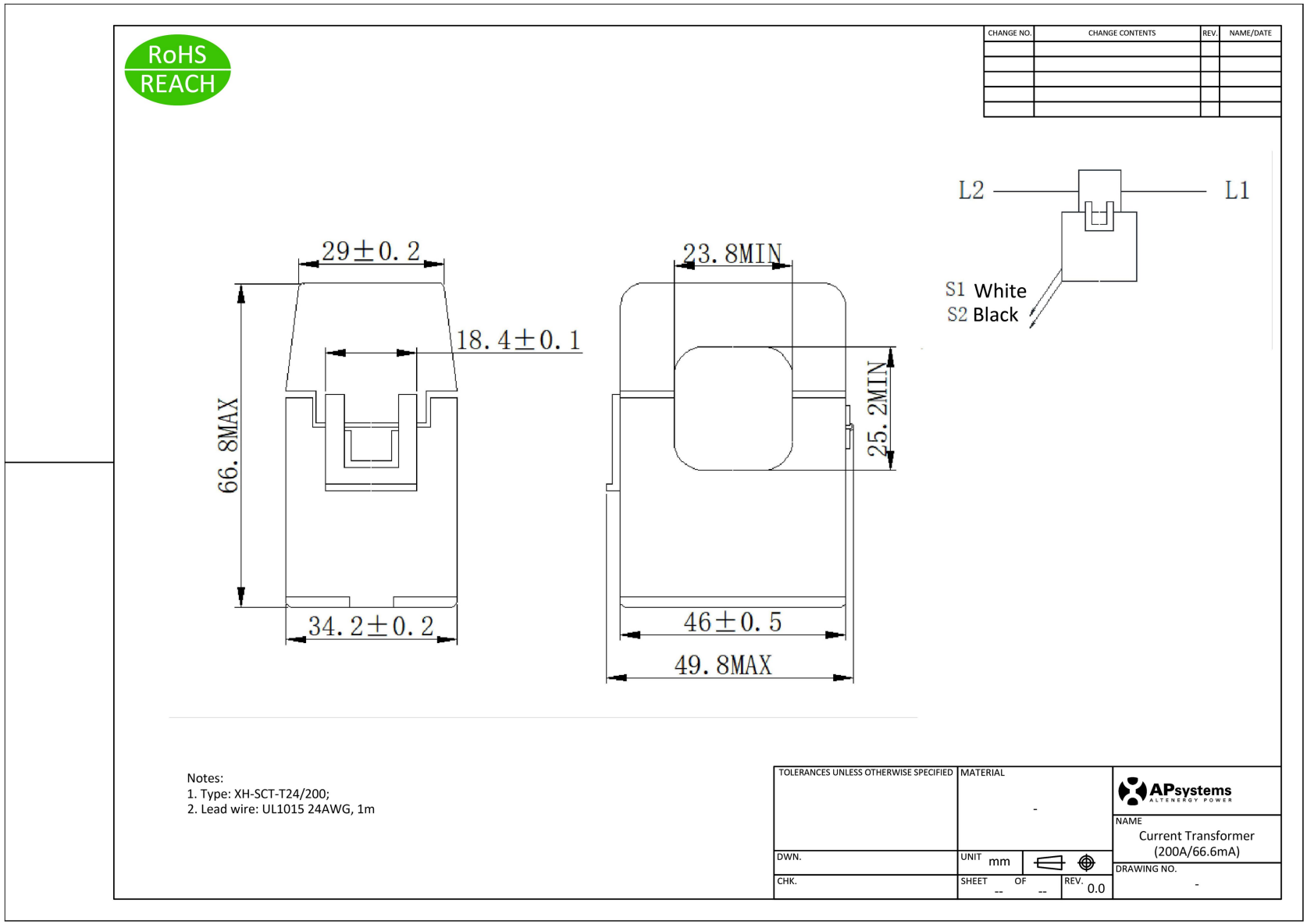


SCT-T10		
Input current(A)	Turn ratio(T)	output voltage(mV)
5-80	1000-3000 Recommended value 3000	333-5000 Recommended value 333

Notes:
1. Type: SCT-T10;
2. Primary current range: 10-3000Arms;
3. Lead wire: UL1007 24AWG, 1m;
4. Working temperature: -25°C~50°C;

TOLERANCES UNLESS OTHERWISE SPECIFIED	MATERIAL -	APsystems ALTENERGY POWER
DWN.	UNIT mm	NAME Current Transformer (80A/26.6mA)
CHK.	SHEET -- OF -- REV. 0.0	DRAWING NO. -

18083020012_Current Transformer (200A/66.6mA)

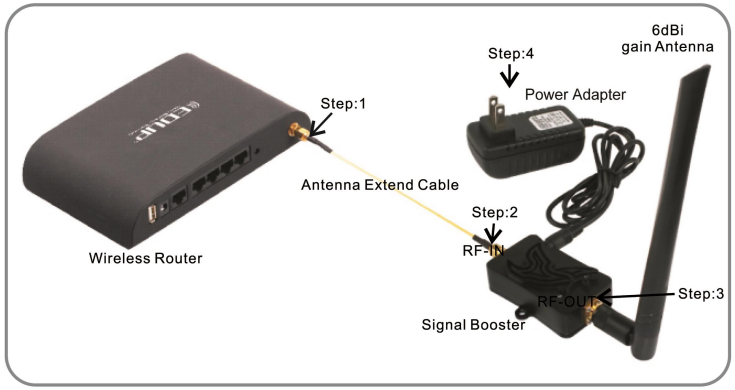


2376010003_Signal Booster（European Standard）/2376000003_Signal Booster（American Standard）

Wifi booster instruction Manual

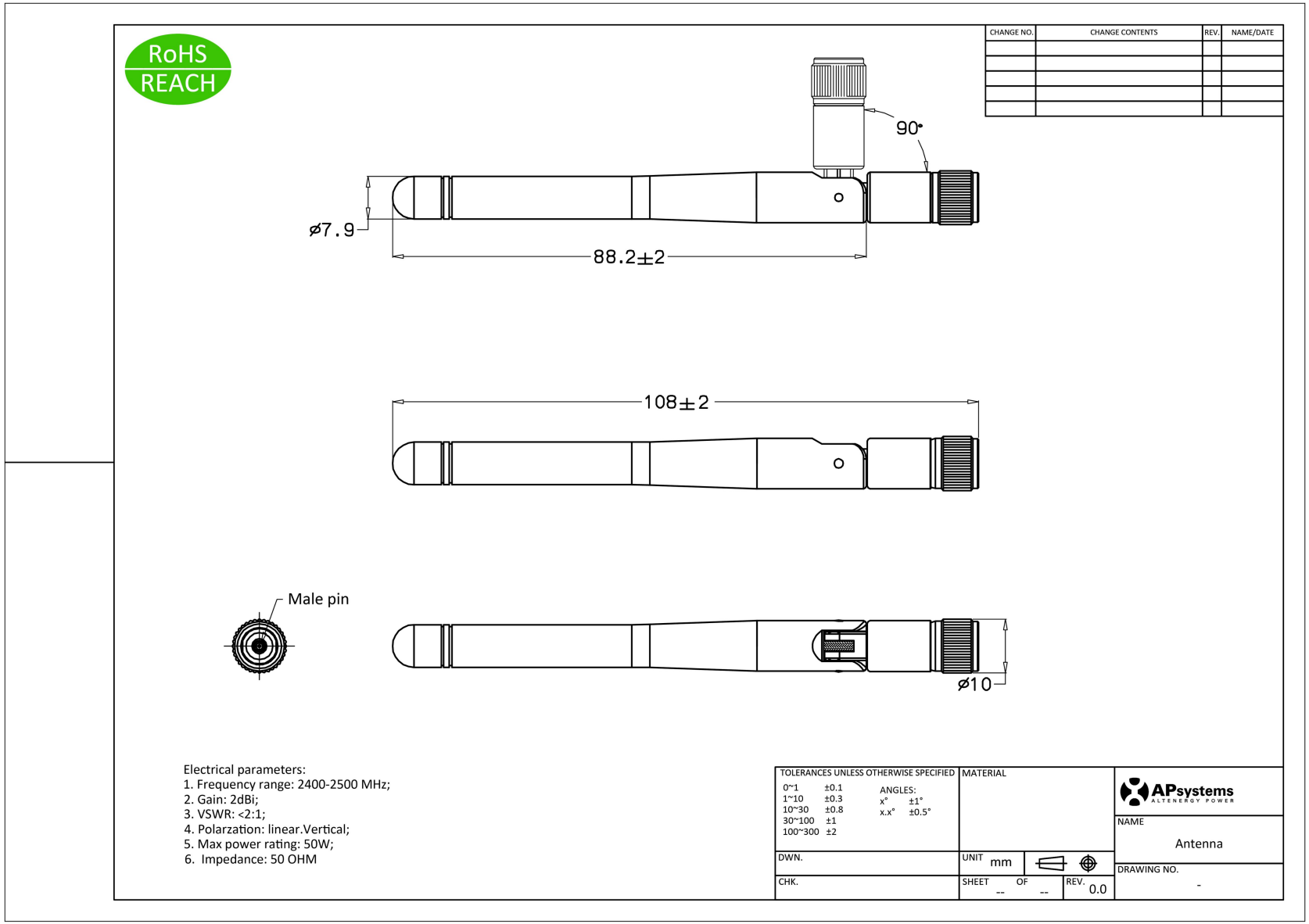
1.Support Standards:IEEE 802.11b/g/n
2.Frequency:2400~2500MHz
3.Working Pattern:TDD
4.RF Output Power:36dBm[4W]
5.Input Trigger Power:Min:3dBm Max:20dBm
6.Transmit Gain:13 dB±1
7.Receiver Gain:10 dB±1
8.TX/RX Switch Time Delay: < 1us
9.Noise Figure: < 2.5dB(typical)
10.Operating Temp:-40℃~+70℃
11.Working Voltage:6-18VDC
12.Operating Humidity:up to 95% rel humidity



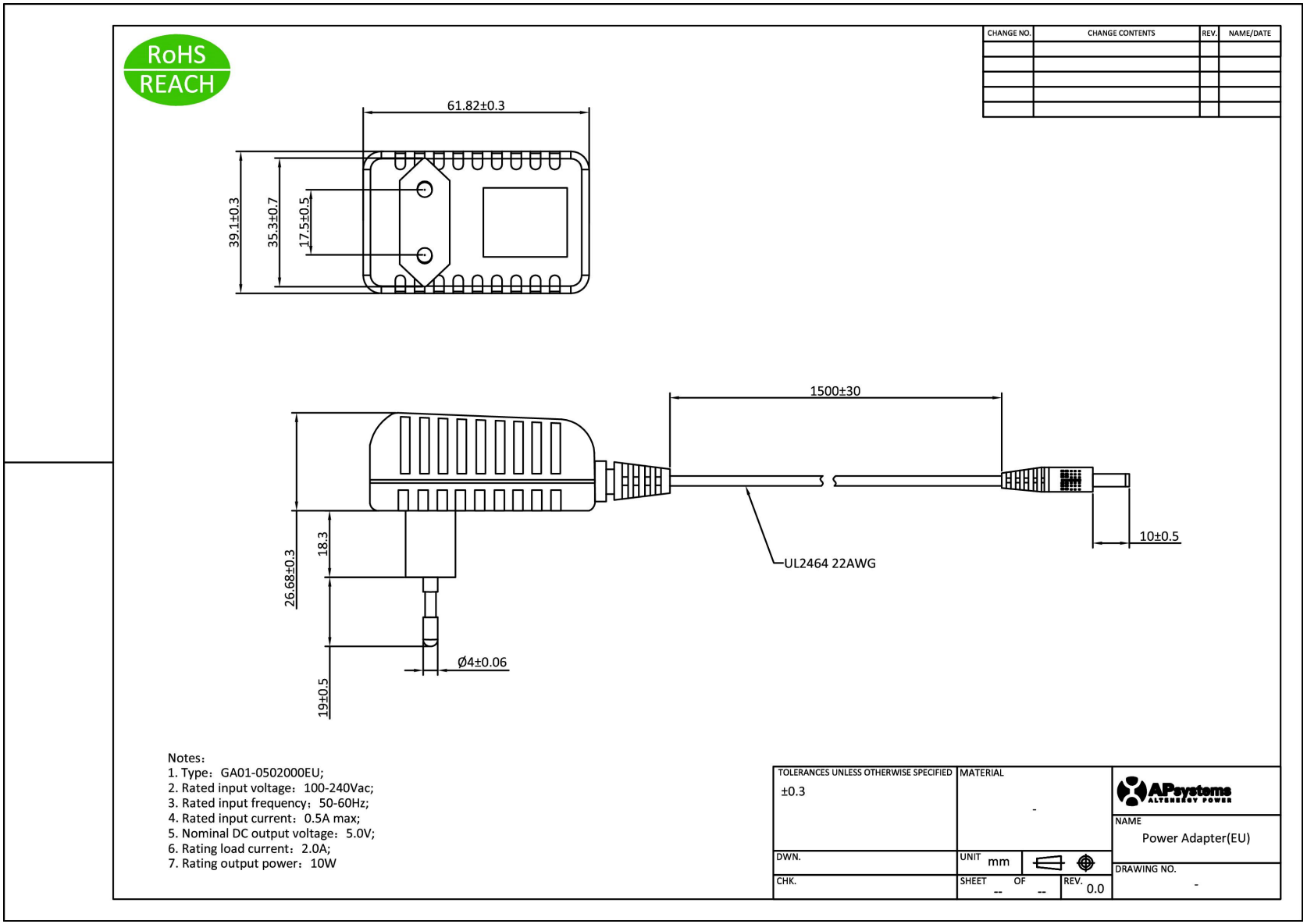


Step1:Remove the Antenna from the wireless Router (Access Point)
Step2:Use cable to connect the Booster and AP
Step3:Connect the Antenna to the other end of Booster
Step4:Plug in the Power Adapter

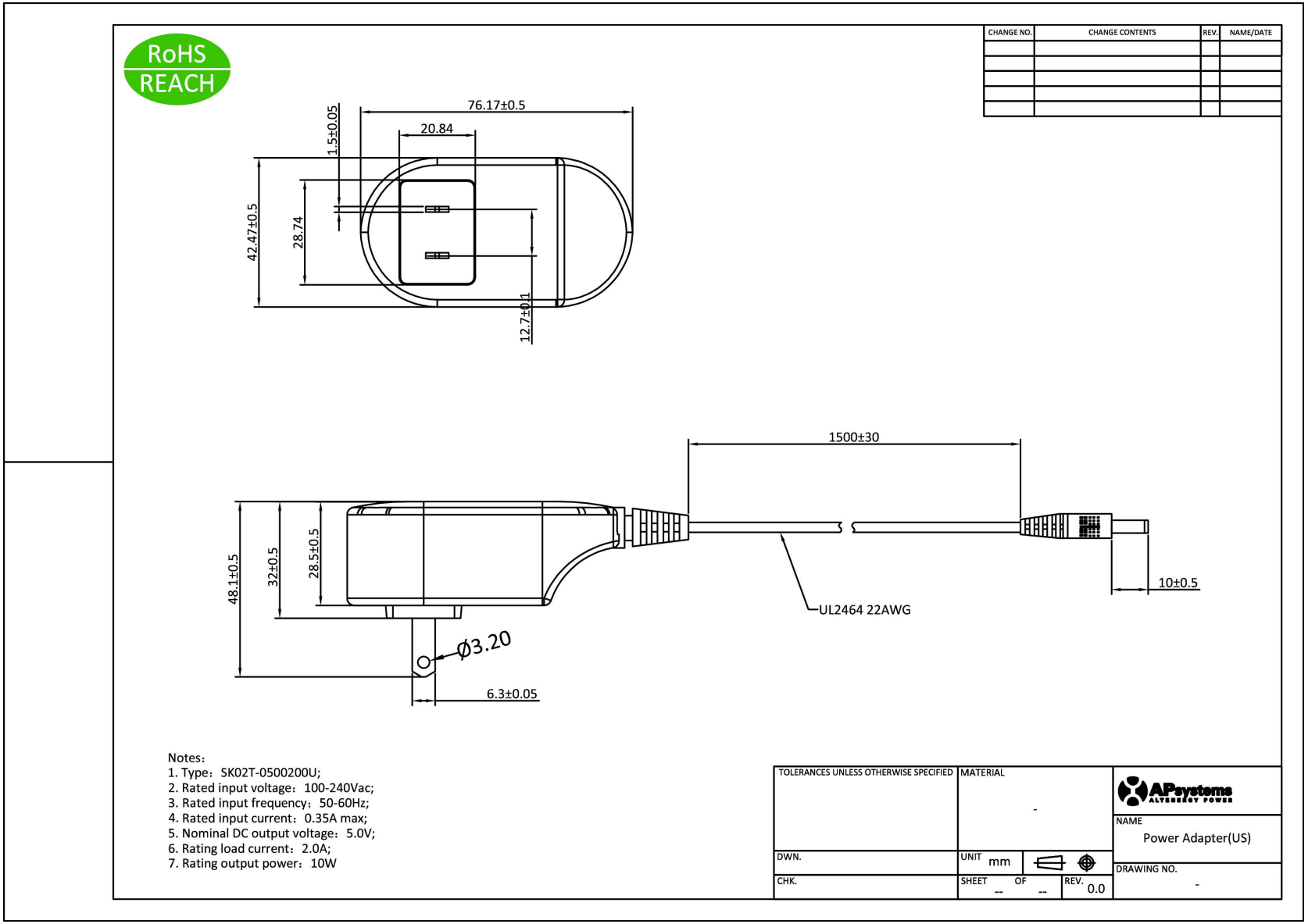
Antenna


RoHS
REACH
CHANGE NO.
CHANGE CONTENTS
REV.
NAME/DATE
90°
ø7.9
88.2±2
108±2
Male pin
ø10
Electrical parameters:
1. Frequency range: 2400-2500 MHz;
2. Gain: 2dBi;
3. VSWR: <2:1;
4. Polarzation: linear.Vertical;
5. Max power rating: 50W;
6. Impedance: 50 OHM
TOLERANCES UNLESS OTHERWISE SPECIFIED
0~1 ±0.1
1~10 ±0.3
10~30 ±0.8
30~100 ±1
100~300 ±2
ANGLES:
x° ±1°
x.x° ±0.5°
MATERIAL
DWN.
CHK.
UNIT mm
SHEET -- OF --
REV. 0.0
APsystems
ALTENERGY POWER
NAME
Antenna
DRAWING NO.
-

Power Adapter (EU)



Power Adapter (US)



Revision history		
Version	**Change contents**	**Date**
REV1.0	First edition	2022-08-23
REV1.1	Update DS3D wiring diagram; DS3D add AC branch extension cable; DS3D/QT2/QT2D add DC extension cable(MC4); Delete Tel	2022-12-03
REV1.2	Delete QT2 6m DC extension cable(MC4); Update ECU-C/ECU-R/ECU-B wiring diagram	2022-12-08
REV1.3	Add DS3 accessories; Add QT2-BR accessories; Change QT2-MX accessories; Update DS3/DS3D/ QT2/QT2D wiring diagram	2023-02-25
REV1.4	Update QT2 accessories ; Update QT2 wiring diagram; Update the name of DS3/DS3D/QT2D bus cable end cap	2023-06-16
REV1.5	Update all drawings,add DS3 bus cable(2.5mm²,H07,4m)	2023-07-10
REV1.6	Update the DS3/DS3D optional bus cable and 5C AC Connector drawings; change the 5C Bus Cable End Cap; update address information	2024-07-31
REV1.7	Change 3C connector unlock tool; Update QT2 dimensions; Update ethernet cable drawing; Delete 2322404502_3-phase 5C Bus Cable (12AWG,TC,4m)	2025-05-06
REV1.8	DS3/DS3D add AC3 wiring diagram, AC3 accessories summary and AC3 physical picture, Add AC3 accessories information	2025-6-24
REV1.9	Add ACB3 connector at the end of Y3 bus cable; Update QT2D graphics and dimensions; Update the bus cable of DS3/DS3D	2025-09-09
REV2.0	Add QS2; Update the graphics of DS3/DS3D/QT2; Change the connectors for extending the 3C bus cable	2025-12-22
REV2.1	Delete ACT3 accessories; Layout update	2026-03-30