



RC—AISG/AISG CONTROL CABLE ASSEMBLY FOR RET SYSTEM

RET CONTROL CABLE ASSEMBLIES, AISG FEMALE/AISG MALE, FR-UV

RC series cable assemblies are designed to connect remote or stationary radio modules of base stations to remote electrical tilt modules in order to be able to change the down tilt without need to physical access the sites. Low-loss AISG connectors provide a reliable and tight connection of the contacts in the line, and are also equipped with a metal locking ring. The assembly is made on the basis of a compact cable with a non-flammable and halogen-free sheath of thermoplastic compound, which provides reliable protection from precipitation, long term exposure to UV radiation, as well as performance in a wide temperature range.

BENEFITS

Connectors

- ▶ IP 65/IP 68
- ▶ Metal locking ring
- ▶ Internal strain relief
- ▶ Protection against moisture, corrosion

Cable

- ▶ Mechanical protection by means of metal braid
- ▶ Water and UV Protection

Standarts

Meets or exceeds requirements
 AISG v3.0.0.10, IEC 60130-9, IEC 60068-2-14,
 IEC 60068-2-11, Test Condition Ka,
 IEC 60068-2-5, Test Condition B, IEC 60529:2001
 RoHS Compliant 2 2011/65/EU



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SPECIFICATION

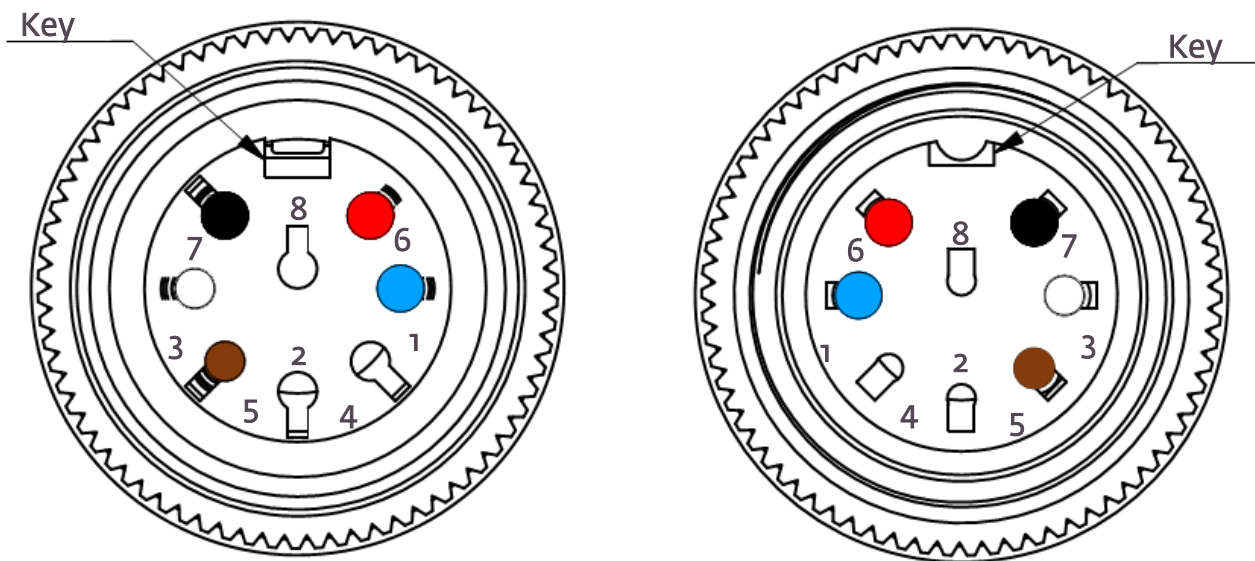
APPLICATIONS			
1	Purpose of a product	Data transmission and a power supply on active components of RET systems	
2	Product type	Cable with AISG connectors	
DESIGN			
1	Number of wires	5 copper wires	
2	Construction	3 wires 0,82 mm ² (18 AWG)	(Power)
		One twisted pair 0,25 mm ²	(Data conductor)
3	Conductor type	Stranded (41/0,16)	(Power)
		Stranded (14/0,15)	(Data conductor)
4	Material of wires isolation	XLPE	(Power)
		PVC	(Data conductor)
5	Existence of the general screen	Yes, aluminum foil + braid annealed tinned copper	
6	Outer Diameter	7,0 mm	
7	Connector (Type A) ¹⁾	AISG 8 pin, female, Colour – gray metallic	RAL-9018
8	Connector (Type B) ¹⁾	AISG 8 pin, male, Colour – gray metallic	RAL-9018
9	Outer jacket colour	Black	RAL 9005
10	Identification	Marking with the manufacturer name, year and month of production, length mark, serial number	
MECHANICAL PERFORMANCE			
1	Tensile Strength	200 N	(installation)
2	Bend Radius	> 60 mm	(installation)
3	Max. Crush Resistance	200 N/cm	(installation)
ELECTRICAL PERFORMANCE			
1	Data transfer protocol	AISG 1.1 AISG 2.0	
2	Current, nominal	4 A (power supply)	
TEMPERATURE PERFORMANCE			
1	Temperature range	from – 15°C to + 50°C from – 40°C to + 80°C from – 40°C to + 80°C	(installation) (operation) (storage)

1) According to IEC 60130-9

POLARITY

AISG FEMALE

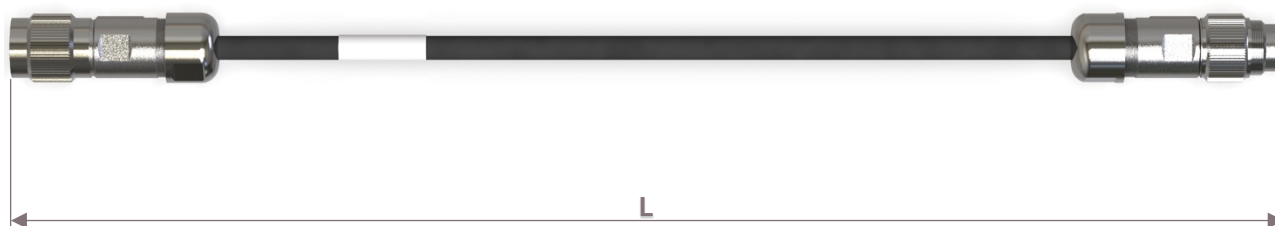
AISG MALE



AISG FEMALE	→	AISG MALE	JACKET COLOUR	SIGNAL TYPE
1	→	1	Blue	+13 V DC (+12 V DC nominal)
2	-	2	-	-
3	→	3	White	RS485 B
4	-	4	-	-
5	→	5	Brown	RS485 A
6	→	6	Red	+29 V DC (+24 V DC nominal)
7	→	7	Black	DC Return
8	-	8	-	-

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**PART NUMBERS**

AISG FEMALE/AISG MALE IP68	
78634955	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 0,5 m
78634956	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 1 m
78634957	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 2 m
78634958	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 3 m
78634959	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 4 m
78634960	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 5 m
78634961	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 10 m
78634962	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 15 m
78634963	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 20 m
78634964	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 30 m
78634965	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 40 m
78634966	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 50 m
78634967	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 70 m
78634968	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP68, 100 m

Note: Other configurations and length can be made upon request. For other configuration go to configuration code section of this datasheet.

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AISG FEMALE/AISG MALE IP65	
78634901	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 0,5 m
78634902	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 1 m
78634903	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 2 m
78634904	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 3 m
78634905	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 4 m
78634906	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 5 m
78634907	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 10 m
78634908	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 15 m
78634909	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 20 m
78634910	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 30 m
78634911	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 40 m
78634912	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 50 m
78634913	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 70 m
78634914	RET control cable assemblies, AISG(f)/AISG(m), FR-UV outdoor, IP65, 100 m

Note: Other configurations and length can be made upon request. For other configuration go to configuration code section of this datasheet.

LENGTH OF CABLE ASSEMBLY

MAX. LENGTH OF CABLE ASSEMBLY				
Outer jacket	7,0 mm			
Max. length ¹⁾	≤ 100 m			
LENGTH TOLERANCE				
Length of cable assembly	≤ 10 m	10 – 30 m	30 – 50 m	> 50 m
Length tolerance	0 / + 10 cm	0 / + 15 cm	0 / + 20 cm	+ 1%

1) The max length value refers to standard items, longer lengths can be made upon request.

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**CONFIGURATION CODE**

EXAMPLE: RET Control cable assemblies, with One twisted pair 0,25m2 and Three 18 AWG insulated copper wires, outer diameter of 7 mm, Outer jacket material is black TPU, IP68, Connector A - AISG FEMALE + Connector, Connector B - AISG MALE + Connector, 6 m length.

RC	1TP	3PC	TPU	70	-	68	AF	AM	BK	006
1	2	3	4	5		6	7	8	9	10

1 Product Category Description

RC - RET Control cable assemblies

2 Data conductor type

1TP - One twisted pair 0,25m2

3 Power conductor type

3PC - Three 18 AWG insulated copper wires

4 Outer Jacket Material

TPU - TPU HFFR

5 Outer Diameter

70 - cable Ø7,0 mm

6 IP protection

65 - IP65

68 - IP68

7 Interface, connector A

AF - AISG FEMALE + Connector (IEC 60130-9)

CF - AISG FEMALE Connector (IEC 60130-9)

AM - AISG MALE + Connector (IEC 60130-9)

CM - AISG MALE Connector (IEC 60130-9)

D9 - D-sub MALE 9 pins Connector

D15 - D-sub MALE 15 pins Connector

H15 - D-sub MALE HD 15 pins Connector

8 Interface, connector B

AF - AISG FEMALE + Connector (IEC 60130-9)

CF - AISG FEMALE Connector (IEC 60130-9)

AM - AISG MALE + Connector (IEC 60130-9)

CM - AISG MALE Connector (IEC 60130-9)

D9 - D-sub MALE 9 pins Connector

D15 - D-sub MALE 15 pins Connector

H15 - D-sub MALE HD 15 pins Connector

9 Jacket Colour

BK - Black

10 Length

006 - length of cable assembly in meters (always three signs), length from an end face to a connector end face.

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Release date: 28/02/2019 | **Version:** 01 | **Revision:** 02

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