



# RET Connecting Cable

**RET Connecting Cables for outdoor and indoor use**

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## Features

- Robust, flexible and slim
- For outdoor or indoor use
- According to AISG specifications
- Connectors ACS C091 overmolded female
- According to IEC 601309
- Signal, 2xAWG24 (TP 100  $\Omega$ /1 MHz)
- Power, 2xAWG18 (4A)
- Sealed according to IP67

## Application

RET (Remote Electrical Tilt) makes it possible to adjust the angle of an antenna remotely. In mobile radio networks, temporary antenna alignment is used for optimizing the network geographically on specific hotspots where higher capacity is temporarily required.

These cables offer a flexible solution to connect the RRU or MCU to the antenna, allowing for a flexible movement.

## Design

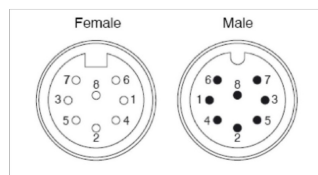
The cables are provided with 8 pin female to male connector according to IEC 60130-9.

Flame retardant design according to UL 1581-1061, UL 1685 and IEC603321-3-24.

Cable and connectors are sealed according to IP67 (when mated).

Cable  $\varnothing$  6.4 mm

## Product Information



Connector PIN-layout:

- 1 Not connected
- 2 Not connected
- 3 RS485 B
- 4 Not connected
- 5 RS485 A
- 6 +29 V DC (+24 V DC nominal)
- 7 DC Return
- 8 Not connected

Wire LIY 1x0.86/1.8 1:

- 1 Stranded bare copper wire (18AWG),  $\varnothing$  1.2 mm (0.047 in)
- 2 Insulation (PVC),  $\varnothing$  1.8 mm (0.071 in)

Pair LI9Y 2x0.22/1.1:

- 1 Stranded bare copper wire (24AWG),  $\varnothing$  0.6 mm (0.024 in)
- 2 Insulation (PP),  $\varnothing$  1.1 mm (0.043 in)
- 3 2 wires WH and BN twisted to a pair

Core:

- 1 pair WH/BN
- 2 2 wires BU-BK
- 3 Fillers
- 4 Plastic tape, overlapped
- 5 Aluminium foil, overlapped, longitudinally
- 6 Shield braiding of thinned copper wires (approx 50% coverage)

Jacket:

- 1 PVC, black,  $\varnothing$  6.4 $\pm$ 0.2 mm (0.252 $\pm$ 0.008 in)

## Technical Information

<b>Product Color</b>	Black
<b>Temperature, Operation [°C]</b>	-40 to +80
<b>Temperature, Storage [°C]</b>	-40 to +80
<b>Temperature, Installation [°C]</b>	-40 to +80
<b>IP Rating</b>	IP67
<b>Reaction to Fire</b>	UL1581-1061, UL1685 (vert. tray) CM, IEC603321-3-24 (Cat. C), UL2556 (Sec. 9.4), old UL1581 (sec. 1080) VW-1

## Technical Notes

### Electrical data at 20°C

- Conductor resistance (18AWG),  $\leq 22.5 \Omega/\text{km}$
- Conductor resistance (24AWG),  $\leq 90 \Omega/\text{km}$
- Insulation resistance,  $\geq 500 \text{ M}\Omega \cdot \text{km}$
- UL Rating, 300 V
- Capacitance (1 kHz, datapair), 52 nF/km
- Char. impedance @ 1.0 Mhz (datapair),  $100 \pm 15 \Omega$
- Attenuation @ 1.0 Mhz (datapair), 2.2 dB/100m
- Test voltage (wire/wire/screen rms 50Hz, 1 min), 1000 V

### Other characteristics:

- UL-style 2464 (80°C/300V)
- CSA C22.2 No. 210.2 I/II A/B FT1
- ROHS 2011/65/EC
- UV resistance, UL2556 (sec. 4.2.8.5)
- Silicone-free
- RH 5-100%
- Min bend radius, repeated 8x $\emptyset$ , single 4x $\emptyset$
- Max pulling force: 180 N
- Weight (cable), 53 kg/km (35.5 lb/1000 ft)

## Installation Notes

Mating torque 0.5-1 Nm. The connector should be tightened by hand or with special tool (Amphenol FH0400 091).

## Articles 6

Article name	Length [m]
<b>RET Cable 3 meter Overmolding</b> RPM254300/01	3
<b>RET Cable 5 meter Overmolding</b> RPM254300/02	5
<b>RET Cable 10 meter Overmolding</b> RPM254300/03	10
<b>RET Cable 15 meter Overmolding</b> RPM254300/05	15
<b>RET Cable 20 meter Overmolding</b> RPM254300/04	20
<b>RET Cable 40 meter Overmolding</b> RPM254300/06	40