

Overview

CAT5e cables are used to connect the AirCare Consoles with ceiling mounted Fan Filter Units and External sensors. The use of pre-molded and pre-tested cables eliminates communication problems and are required by AirCare Automation in facility installations using AirCare Consoles. Historically, over 70% of the installation start-up problems have been caused by individually crimped cables.

When planning an installation, AirCare provides a family of industry standard and “plenum-rated” pre-molded CAT5e cables to assist in the process. These can be ordered along with the AirCare Consoles to complete a rugged Facility Control infrastructure. All cables are pre-molded and pre-tested prior to insure communication integrity.



AirCare Part no.	Length (ft)
ACS2101P	10
ACS2102P	25
ACS2103P	50
ACS2105P	100

Specifications

- TIA/EIA-568-B.2 Category 5e
- Cable Type — 4-pair UTP, 300 V
- Rating Temperature Voltage — 167° F (75° C); 300V
- Conductor — 24 AWG, solid, bare copper
- Characteristic Impedance — 1–350 MHz: 100 ± 15 ohms
- Frequency — Up to 350 MHz
- Impedance — 100 ± 15 ohms
- Return Loss (Minimum) —
 - 19 dB/100 m (328.1 ft.) at 100 MHz;
 - 4.56 dB/100 m (328.1 ft.) at 100 MHz

Compliance

- TIA/EIA-568B.2 Category 5e
- UL Certified
- ETL listed and verified
 UL type CMP; CSA, (c)UL,

Installation

When installing the Cat5e cable into the unit socket, inspect the socket to be sure the internal pins are not distorted and that there is no imbedded packing materials or other blockage. Avoid twisting of the cable unnecessarily and avoid sharp 90 deg (or smaller) bend angles.

Wiring Diagram

