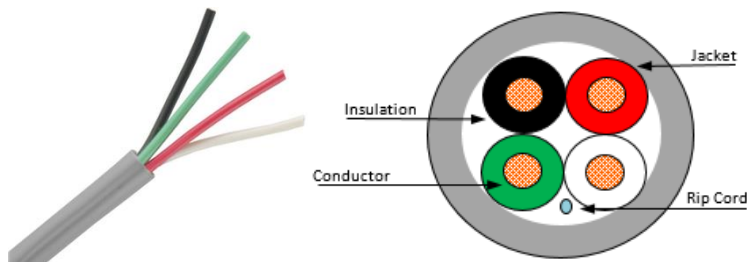# COPPER SYSTEMS

ALSTON systems ®

16 AWG Unshielded Multi-Conductor Cable

Product Overview

Alston Systems Multi-Conductor Cables are designed for use in a number of communication applications, such as Public Address Systems, Remote Control Circuits, Actuator Controls, Audio and Sound Systems, Security Systems, Building Management Systems (BMS) and Data Transmission.

Cable Construction

Conductor	N x Bare Copper wire, 16 AWG flexible
Insulation - Polypropylene	Core 1: Black | Core 2: Red | Core 3: White | Core 4: Green | Core 5: Brown | Core 6: Blue | Core 7: Orange | Core 8: Yellow
Rip Cord	Nylon Yarn
Sheath & Color	Flame Retardant PVC/LSZH & Gray

Physical Characteristics

No of Cores x 16 AWG	2	4	6	8
Nom. Diameter Conductor (mm)	1.45			
Nom. Insulation Thickness (mm)	0.2			
Nom. Jacket Thickness (mm)	0.35			
Drain Wire Size	7/0.203mm, TC			
Nom. Overall Diameter mm	4.5	5.25	6.7	7.5
Temperature Rating	-25°C ~75°C			
Max. Recommended Pulling Tension (N)	262	520	780	1040
Min. Bend Radius (install) (mm)	46	53	68	76
Nominal Cable Weight (kg/km)	35	61	89.5	119

Electrical Characteristics

No of Cores x 16 AWG	2	4	6	8
Max. DC Resistance Conductor (Ω/km)	15.47			
Capacitance conductor to conductor (pF/m)	53	55	48	44
Nominal Inductance (µH/m)	0.5			
Max. Recommended Current at 25°C (Amps)	6.25	4.95	4.35	4.35
Max. Operating Voltage (Vrms)	300			

Standards

- Comply to RoHS
- Flammability: Comply to IEC 60332-1, VW-1 / IEC 60228

Ordering Information

Part Number	Description
CU0216	Alston Systems, 2 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, PVC, Gray
CU0416	Alston Systems, 4 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, PVC, Gray
CU0616	Alston Systems, 6 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, PVC, Gray
CU0816	Alston Systems, 8 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, PVC, Gray
CU0216L	Alston Systems, 2 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, LSZH, Gray
CU0416L	Alston Systems, 4 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, LSZH, Gray
CU0616L	Alston Systems, 6 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, LSZH, Gray
CU0816L	Alston Systems, 8 Core, 16 AWG Unshielded Multi Conductor Cable 305m/roll, LSZH, Gray