



Product Specification Sheet



APS194

Rev. 2 - 03/2000

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The cable shall be Alpha Communications® WM300 or approved equal and shall contain 9 conductors. All 9 conductors shall be wrapped by a GRAY .045" thick PVC jacket to form one single cable. The NOMINAL O.D. of this cable shall not exceed .590". The conductors within this cable shall be configured as follows.

One Data Assembly (1 twisted pair plus 1 cond.) #18 gauge stranded wire wrapped by an overall aluminum/mylar shield and an ORANGE .020" thick PVC jacket. This shield shall have a #18 gauge drain wire. The conductors shall be Yellow, Orange and Green, insulated by .033" thick Tapolene. The capacitance between these three conductors shall be 12.5 pF/foot.

One Audio Assembly (1 twisted pair) #18 gauge stranded wire wrapped by an overall aluminum/mylar shield and a GRAY .020" thick PVC jacket. The shield shall have a #18 gauge drain wire. The conductors shall be Purple and Gray insulated by .016" thick HDPE.

Three #18 gauge stranded wires wrapped by an overall aluminum/mylar shield. The shield shall have a #18 gauge drain wire. The conductors shall be RED, BROWN and BLUE insulated by .015" thick PVC.

One #16 gauge stranded wire. The conductor shall be Black insulated by .016" thick PVC.

WM300 Multiplex Nurse-Call Cable

Alpha Communications® WM300 control cable is specially made for use with the NC300 series microprocessor nurse call system. The cable features the precise combination of conductors and shielding necessary to provide optimum performance of the NC300 system.

The cable provides for simple installation, as all wire necessary for connection of the central processing equipment to master, patient, staff and duty stations is contained in a single jacket. The individually shielded and jacketed Data and Audio assemblies with drain wire ensure clear, noise-free audio communication.

FEATURES

- Single cable wiring (multiplexed)
- Specialized wire combination for optimum performance
- Simple installation
- Individually shielded and jacketed Data and Audio Assemblies

DESCRIPTION

Nine conductor cable assembly protected by a Gray PVC .045" thick PVC jacket. Nominal O.D. - .590". Configured as follows.

- Data Assembly consists of 1 twisted pair plus 1 conductor #18 gauge stranded wire wrapped by an overall aluminum/mylar shield and an Orange .020" thick PVC jacket. The shield has a #18 gauge drain wire. The conductors are Yellow, Orange and Green insulated by .033" thick Tapolene. The capacitance between these conductors is 12.5 pF/foot.
- Audio Assembly consists of 1 twisted pair #18 gauge stranded wire wrapped by an overall aluminum/mylar shield and a Gray .020" thick PVC jacket. The shield has a #18 gauge drain wire. The conductors are Purple and Gray insulated by .015" thick PVC.
- Three #18 gauge stranded wires wrapped by an overall aluminum/mylar shield. The shield has a #18 gauge drain wire. The conductors are Red, Brown and Blue insulated by .015" thick PVC.
- One #16 gauge stranded wire. The conductor is Black insulated by .016" thick PVC.

Due to continuous product improvement, all colors, sizes, materials, finishes and specifications are subject to change without notice.

Copyright© 1998-2000, Alpha Communications®, All Rights Reserved

Rating (As Per 1990 NEC)

- UL Listed NEC Type CM or CL3
- Constructed in accordance with standards 13 and 444.
- Listed as being resistant to the spread of fire as defined in section 725-51 (c) and 800-51 (c) of the National Electrical Code. UL 1581 Vertical Tray Flame Test.
- Voltage rating not less than 300 volts as defined in section 725-51 (f) and 800-51 of the National Electrical Code.

APPLICATIONS

Can be used within buildings as long as the area is not a plenum or riser area.

Capacitance between conductors: 12.5 pF/ft. (Data Assembly)

Data Assembly (1 twisted pair plus 1 cond.)

AWG Size	18
Stranding	7 x 26
Nom. Insulation Thickness	.033 Tapolene
Shielded Type and % Coverage	Aluminum Polyester Foil 100%
Drain Wire Size	18 (7 x 26) TC
Color Code	Yellow/Orange Green
Assembly Jacket	0.20 PVC (Orange)

Audio Assembly (1 twisted pair)

AWG Size	18
Stranding	7 x 26
Nom. Insulation Thickness	.016 HDPE
Shielded Type and % Coverage	Aluminum Polyester Foil 100%
Drain Wire Size	18 (7 x 26) TC
Color Code	Purple/Gray
Assembly Jacket	0.20 PVC (Gray)

18 AWG Conductors

Conductors	3
AWG Size	18
Stranding	7 x 26
Nom. Insulation Thickness	.015 PVC
Shielded Type and % Coverage	Aluminum Polyester 100%
Drain Wire Size	18 (7 x 26) TC
Color Code	Red/Brown/Blue

Unshielded Single Conductors

AWG Size	16
Stranding	19 x 29
Nom. Insulation Thickness	.016 PVC
Color Code	Black

Overall Protection

Nom. Jacket Thickness	.045
Jacket Type and Color	PVC (Gray)
Nom. O.D.	.590