

Technical Data Sheet

Aquaseal® Fire-Alarm Cables



WEST PENN WIRE

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PART NUMBER:	AQ296
DESCRIPTION:	12/2 Stranded bare copper conductors, overall shield with Aquaseal tape and overall jacket.
NEC RATING:	FPL – PLTC, NEC Article 760 And 725
APPROVALS:	(UL) or (ETL)us Listed – Direct Burial
APPLICATION:	Materials suitable for outdoor use (direct burial), and indoor trays, allows a variety of uses for (Low voltage industrial process control circuits, Power-Limited circuits, Power-Limited fire alarm circuits, Power-Limited tray cable PLTC)

Construction Parameters:

Conductor	12 AWG Bare Copper
Stranding	19x25
Insulation Material	PVC with Nylon
Insulation Thickness	PVC 0.015" Nom. Nylon .005" Nom.
Number of Conductors	2 (1 Pair)
Shield	100% Aluminum Polyester Foil
Drain	Stranded Tinned Copper
Water-Blocking Tape	2 Ply water swellable tape
Jacket Material	Sunlight/ Moisture Resistant PVC
Jacket Thickness	0.040" Nom.
Overall Cable Diameter	0.375" Nom.
Approximate Cable Weight	89 Lbs/1M' Nom.
Flame Rating	UL 1685 Vertical Tray

Electrical & Environmental Properties:

Temperature Rating	-20deg C to 60deg C
Operating Voltage	300 V RMS
Max.Capacitance Between Conductors @ 1 KHz	54 pf/ft Nom.
Capacitance Between Conductors to Shield @ 1 KHz	97 pf/ft Nom.
DC Resistance per Conductor @ 20deg C	1.7 Ohms/1M' Nom.
Insulation Colors	Black, Red
Jacket Color	Black
RoHS Compliant	--
TIA455-82B Water Infiltration Test Compliant	Yes
UL 444 & 13 Compliant	Yes

Mechanical Properties:

Max. Recommended Pull Tension	161 lbs.
Min. Bend Radius (Install)	3.7"

Specification Issue Date: 7/06

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Standard Lengths are 1000ft.
The Jacket is sequentially footmarked.
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