

SPEC NUMBER: 970320OPT



DESCRIPTION 20/3 7/TC SHD/DRN OPTICOM CABLE

CONSTRUCTION

AWG	20 AWG 7x28 Stranded Tinned Copper
Conductors	3
Primary Insulation	Polyethylene
Nominal Wall	.025
Tape	Aluminum Mylar Shield
% Overlap	20
Drain	20 7x28 Tinned Copper
Jacket	PVC - BLACK
Nominal Wall	.045
Nominal OD	.290
Nom Wt	41.30 #'s per thousand
Temperature Rating	80C
Operating Voltage	600V
Nom pF/ft cond to cond	14.6
Nom pF/ft cond to cond to drn	33
Characteristics	This cable is twisted with an overall shield and drain and then jacketed with an overall sunlight resistant PVC jacket. It has a rip cord pulled under the jacket for ease of jacket removal Suitable for direct burial, use in conduit and overhead installation when attached properly to a messenger.
Rip Cord	Yes
Color Code:	Org-Yel-Blu
Print:	Falcon Fine Wire "Year" 20 - 3 OPTICOM MADE IN USA Ft Markers

8/31/2012 added electricals



TRANSPORTATION
DEPARTMENT

mesaaz.gov

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City of Mesa Transportation-ITS Group Approved Traffic Signal Cable & Fiber Optic Cable (Formerly Mesa Standard Detail M-97.0)

Revised 1/22/13

1. SIGNAL CABLE:

Approved Suppliers: Belden, Advanced Digital, Falcon Fine Wire, Tappan
Part Number: 19-1, 90c Hi Temp
Description: 2/5/7/25 Conductor & shall have a rip cord
Conductor: 16 AWG Stranded copper wire
Note: Resin certifications may be required.
(See specifications & suppliers list on page 3)

2. DETECTOR LOOP WIRE:

Part Number: IMSA 51-5-1984
Description: PVC insulation, nylon jacketed loop detector wire loosely
encased in a PVC or PE tube.
Tube Color: Orange

3. DETECTOR LOOP LEAD-IN CABLE:

Approved Suppliers: Belden, Accu-Tech, Advanced Digital Cable (ADC), Falcon Fine Wire
Part Number: Belden 7992A w/gel blocker, Accu-Tech 144922, ADC 8384PWB,
Falcon Fine Wire 970418GFPP
Description: 4 conductor with shield
Conductor: 18 AWG stranded, tinned copper wire
Shield: Aluminum/Polyester
Block Material: Cable is filled with gel water block (not adhesive). Cables with adhesive water
block material not be accepted.
Jacket Material: Polyethylene

4. FIRE PRE-EMPTION CABLE:

Approved Suppliers: 3M, Accu-Tech & Belden, COLE, Tappan, Falcon Fine Wire,
Advanced Digital Cable (ADC)
Part Number: 3M/M-138, Accu-Tech/S2138, Belden/58046, Cole CWX-S203CSTP-Mesa
Tappan SU3007/2080AT3M/NU, Falcon Fine Wire 970320OPT-00
ADC 32003HSD
Description: 3 Conductor, Blue/Orange/Yellow with drain wire
Conductor: 20 AWG, Stranded (7x28), tinned copper
Shield: Aluminum/Polyester
Drain Wire: 20 Awg, Stranded (7x28), tinned copper

5. VIDEO DETECTION CABLE:

Approved Suppliers: Econolite, Falcon Fine Wire
Part Number: Econolite-ECPI-010 (500'), ECPI #1175-011 (1000')
Falcon Fine Wire 970316TS 16/3 Solo Terra
Description: Autoscope Terra Branch Cable (Cabinet to Camera)
Conductor: 18 AWG, 3 Conductor
Jacket Material: Low Density Polyethylene