

1) CONSTRUCTION:

CONDUCTOR: 18 AWG 7/26 STRANDED TINNED COPPER	NOM. DIA. .048"
INSULATION: FOAMED FEP, .038" WALL THICKNESS	.123"
CABLE: (2) COLOR CODED SINGLES SHALL BE TWISTED TOGETHER AND WRAPPED WITH AN ALUMINUM POLYESTER ALUMINUM FOIL SHIELD (100% COVERAGE) WITH 7 ENDS OF 28 AWG TINNED COPPER DRAIN WIRE IN CONTACT WITH THE OUTER METALIZED SURFACE.	.255"
JACKET: POLYVINYLCHLORIDE, (COLOR PER CHART 1), .021" NOM. WALL THICKNESS	.297" (BY CALIPER ACROSS WIDEST CROSS-SECTION)

2) PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX.	105°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	44.7 LBS.

CHART 1

QUABBIN P/N	JACKET COLOR
3200	BLACK
3201	BROWN
3202	RED
3203	ORANGE
3204	YELLOW
3205	GREEN
3206	BLUE
3207	VIOLET
3208	CHROME GRAY
3209	WHITE
3210	STARLIGHT BEIGE

3) ELECTRICAL CHARACTERISTICS:
SEE PAGE 2

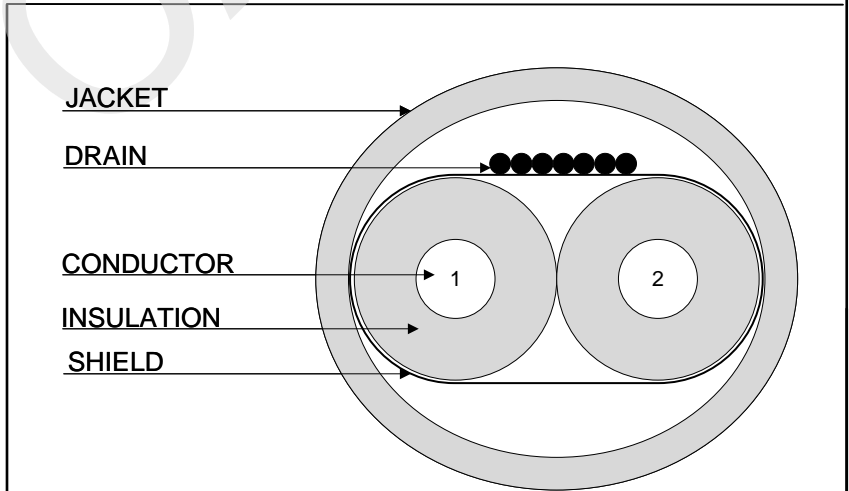
4) AGENCY APPROVALS:
NEC (UL) TYPE CMP
CEC C(UL) TYPE CMP

5) APPLICATION:
COMPLIANT WITH ANSI/TIA-568.5 DRAFT 1.5a SP1-1000 CABLING STANDARDS WITH DISTANCE LIMITATIONS SPECIFIED ON PAGE 2. RoHS COMPLIANT MATERIALS.

6) PRINT:
QUABBIN DATAMAX P/N (**P/N PER CHART 1**) C(UL)US TYPE CMP 18 AWG SHIELDED 105C -- RoHS -- (**LOT DESIGNATOR**) (**SEQUENTIAL FOOTAGE**)

7) COLOR CODE:
1. BLUE X 2. WHITE

8) PACKAGING:
TO BE PACKAGED AS PER QWC'S STANDARD PACKAGING



PS1739

Created 10/28/20	DRAWN: BMD 09/01/22
REV. 02	CHECKED: ZRS 09/08/22



TITLE QUABBIN DATAMAX SPE -- 18 AWG SHIELDED	DRAWING# QWC0141
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CUSTOMER APPROVAL: _____ DATE: _____

3) ELECTRICAL CHARACTERISTICS:

CABLE IS DESIGNED TO BE COMPLIANT TO ANSI/TIA-568.5 DRAFT 1.5a SP1-1000 CHANNEL REQUIREMENTS AT THE LENGTHS LISTED BELOW FOR DIFFERENT POWER OVER DATA LINE (PoDL) APPLICATIONS:

PoDL Class	Maximum Length (m)
No Power	1000
10	1000
11	451
12	118
13	1000
14	451
15	118


CAPACITANCE, MUTUAL, NOM. 13 PF/FT. AT 1 MHz
 DIELECTRIC WITHSTANDING, MIN. 1500V RMS
 VOLTAGE RATING, MAX. 300V
 D.C. RESISTANCE, MAX. 2.33 Ω

NOTE: TESTING FOR THE FOLLOWING IS CONDUCTED OFF THE REEL. (FOR 100m OF CABLE)

IMPEDANCE, NOM.	100 Ω
RETURN LOSS	0.1 $\leq f < 10$ MHz 20 + 5 LOG(f) dB MIN 10 $\leq f \leq 20$ MHz 25 dB MIN
INSERTION LOSS	0.1 $\leq f \leq 20$ MHz 1.23 \sqrt{f} + 0.01(f) + 0.2/ \sqrt{f} dB MAX
COUPLING ATTENUATION	0.1 $\leq f \leq 20$ MHz 55 dB MIN
PSANEXT	0.1 $\leq f \leq 20$ MHz 37.5 - 17 LOG($f/20$) dB MIN, 67 dB MIN
PSAFEXT	0.1 $\leq f \leq 20$ MHz 38 - 18 LOG($f/20$) dB MIN, 67 dB MIN
TCL	0.1 $\leq f < 20$ MHz 50 - 15 LOG(f) dB MIN, 50 dB MIN
ELTCTL	0.1 $\leq f < 20$ MHz 40 - 20 LOG(f) dB MIN, 40 dB MIN

NOTE: ALL TESTING IS CONDUCTED OFF THE REEL.

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CUSTOMER APPROVAL:

DATE: