

1) CONSTRUCTION:

CONDUCTOR: 18 AWG 7/26 STRANDED TINNED COPPER

INSULATION: FOAMED FEP, .038" WALL THICKNESS

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.

JACKET: POLYVINYLCHLORIDE, (COLOR PER CHART 1), .021" NOM. WALL THICKNESS

NOM. DIA.

.048"

.123"

.255"

OVERALL CABLE DIAMETER .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:

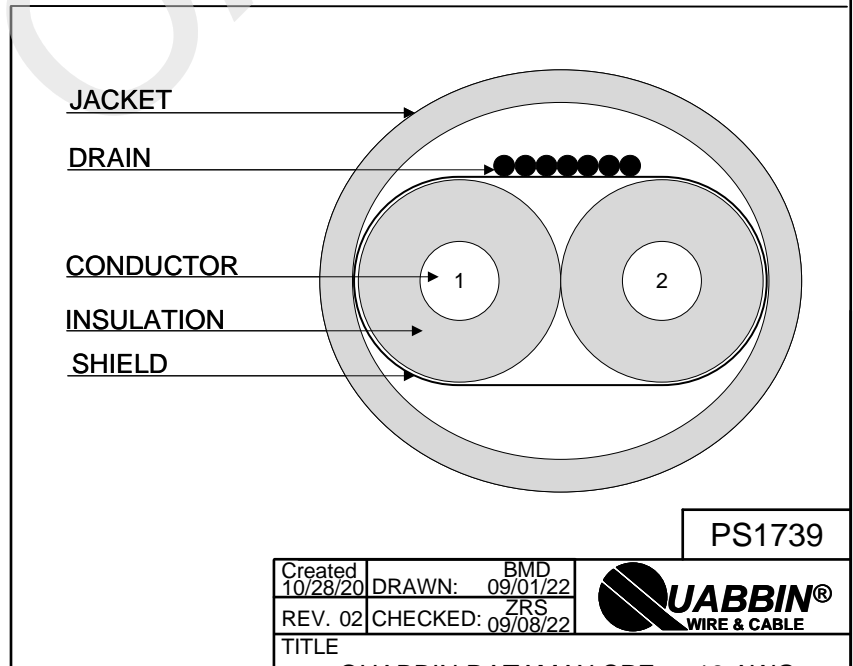
QUABBIN DATAMAX P/N (P/N PER CHART 1) C(UL)US TYPE CMP 18 AWG SHIELDED 105C -- RoHS -- (LOT DESIGNATOR) (SEQUENTIAL FOOTAGE)

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

1 of 2

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  $\Omega$

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

IMPEDANCE, NOM.	100 $\Omega$
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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		2 of 2

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