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REVISION

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	B	ECO-14925	09/10/2025	AKRESOWSKI	GUTTADAURO

1. CONSTRUCTION:

NOM DIA

CONDUCTOR: 18 AWG 7/.0152 STRANDED BARE COPPER
INSULATION: POLYVINYLCHLORIDE, .016 [0.41] NOM WALL THICKNESS
PAIR: (2) INSULATED COLOR CODED SINGLES TWISTED TOGETHER TO FORM A PAIR.
PAIR SHIELD: AN ALUMINIZED POLYESTER FOIL SHIELD (FOIL IN, 100% COVERAGE)
SHALL BE APPLIED OVER EACH PAIR AND SHALL CONTAIN A 20 AWG 7/28 STRANDED,
TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE FOR EASY
TERMINATION.
COMMUNICATION WIRE:
CONDUCTOR: 22 AWG 7/30 STRANDED TINNED COPPER
INSULATION: POLYVINYLCHLORIDE, ORANGE, .016 [0.41] NOM WALL THICKNESS
CABLE: (2) SHIELDED PAIRS AND (1) COMMUNICATION WIRE TWISTED TOGETHER
TO FORM A CABLE CORE.
SHIELD: AN OVERALL ALUMINIZED POLYESTER FOIL SHIELD (FOIL OUT, 100% COVERAGE)
SHALL BE APPLIED OVER THE CABLE CORE AND INCLUDE A 20 AWG 7/28 STRANDED,
TINNED COPPER DRAIN WIRE IN CONTACT WITH THE METALIZED SURFACE FOR EASY
TERMINATION.
JACKET: POLYVINYLCHLORIDE, BLACK, .042 [1.07] NOM WALL THICKNESS.
OVERALL CABLE DIAMETER:

.046 [1.17]
.078 [1.98]
.156 [3.96]

.161 [4.09]

.030 [0.76]
.062 [1.57]

.279 [7.09]

.281 [7.14]

.365 ± .020 [9.27 ± 0.5]
(BY PI TAPE)

2. PHYSICAL PROPERTIES:

TEMPERATURE RATING, MAX 80°C & 105°C
TEMPERATURE RATING, MIN: -40°C
WT/M, NOM, NET: 70.1 LBS
BEND RADIUS, MIN (STATIC): 4.4 [112]
JACKET IS SUNLIGHT RESISTANT.

3. ELECTRICAL CHARACTERISTICS:

CAPACITANCE, MUTUAL, NOM: 33 pF/FT
CAPACITANCE, GROUNDED, NOM: 62 pF/FT
DIELECTRIC WITHSTANDING, MIN: 2000V RMS
VOLTAGE RATING, MAX: 300V
DC RESISTANCE, MAX: 6.64Ω/1000 FT

4. AGENCY APPROVALS:

NEC (UL) TYPE PLTC
NEC (UL) TYPE ITC
NEC (UL) TYPE CM
CEC C(UL) TYPE CM
UL AWM STYLE 2464

5. APPLICATION:

PROCESS SYSTEM INTERCONNECT. POWER LIMITED TRAY CABLE, INSTRUMENTATION TRAY CABLE.
CLASS 3 CIRCUITS. RoHS COMPLIANT MATERIALS.

6. PRINT: (WHITE INK)

QUABBIN SIGNALGUARD P/N 0332 (UL) TYPE PLTC OR ITC 18 AWG SHIELDED 105C
SUN RES OR C(UL)US TYPE CM OR AWM 2464 -- RoHS -- (LOT DESIGNATOR)

7. COLOR CODE:

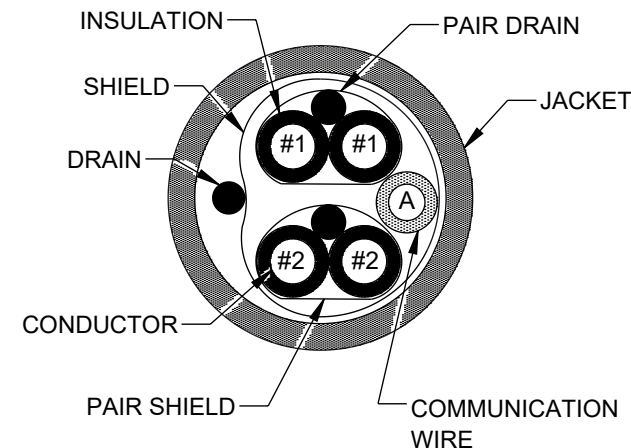
EACH PAIR: BLACK X WHITE
PAIRS NUMBERED #1 TO #2
WHITE INK ON BLACK CONDUCTORS
BLACK INK ON ALL OTHER CONDUCTORS
A: ORANGE

REGULATORY COMPLIANCE:

EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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CROSS-SECTIONAL VIEW



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

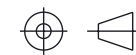
TOLERANCES:
X = ±.2 [5] FRACTIONS
.XX = ±.02 [0.5] ± 1/32
.XXX = ±.005 [0.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.
UN-DIMENSIONED/NON-CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

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INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE SHEET
NONE 1 OF 1

DESCRIPTION
PROCESS SYSTEM INTERCONNECT CABLE, USA MADE, 18AWG
2 SHIELDED PAIRS & 22AWG COM WIRE, AWM 2464 300V CM
PLTC ITC UV RES PVC, BLK, 1000F

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	DMAY	PBPLTC-182PDS-1K	B

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