

Description: Triaxial HV Cable AWG16
90°C, TPU Jacket

Create Date: 11/25/2024

Design No.: 11044

IEWC P/N: 32199458

<u>Construction</u>	<u>Nom OD</u>
1. Conductor: 16AWG (105/0.127mm), Tin plated copper	1.53mm
2. Semicon: Semiconductive Silicone	2.7mm
3. Dielectric: Silicone	8.5mm
4. Semicon: Semiconductive PTFE Tape	9.0mm
5. Braid I: 24x6x0.15mm, Tinned copper, min 85%	9.6mm
5a. Tape: Polyester Tape	9.7mm
6. Dielectric: Silicone	10.7mm
6a. Tape: Polyester Tape	10.8mm
7. Braid II: 24x6x0.15mm, Tinned copper, min 85%	11.6mm
8. Tape: Nonwoven Separator Tape	11.7mm
9. Jacket: TPE-U, Black	14.3±0.5mm

TECHNICAL DATA

Operating Temperature: -40°C to +90°C

Rated Voltage: Conductor – Braid I 15kV_{AC}

Braid I – Braid II 1kV_{AC}

Test Voltage: Conductor – Braid I: 40kV_{DC}/1min;

Braid I – Braid II: 6kV_{DC} /1min;

Jacket: 5kV_{AC} (Spark Test)

Partial Discharge Level (Conductor – Braid I): 8kV_{AC}

Capacitance: Conductor – Braid I: typ. 150pF/m; (Need to test)

Braid I – Braid II: typ. 870pF/m (Need to test)

Conductor DC Resistance@20°C: ≤14.6 Ω/km

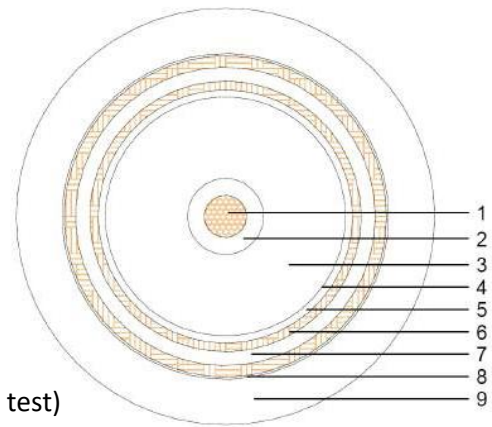
Insulation Resistance (Braid I – Braid II): > 10⁹ Ω on 21m Cable length

Braid Resistance (Braid I): <16mΩ/m

Braid Resistance (Braid II): <11mΩ/m

Min. Bending Radius: 210mm(moving), 105mm(fixed)

RoHS Compliant



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