

1. CONSTRUCTION:
1. CONDUCTOR: STRANDED PLAIN ANNEALED BARE COPPER WIRE 7/0.160±0.008mm (26AWG)
 2. INSULATION: FOAM-PE, 1.12±0.05mm
 3. TWISTING: 1 TWISTED PAIR, 2 SINGLE CONDUCTORS PAIRED, TWISTED PAIR COLOR CODE: WHITE/BLUE
 4. SHIELDING (1): ALUMINUM / MYLAR TAPE, WRAPPED ALUMINUM SIDE FACE-OUT.
 5. SHIELDING (2): TINNED COPPER WIRE BRAIDING, MIN. 85% COVERAGE.
 6. OUTER DIAMETER: 3.9±0.3 mm
 7. JACKET COLOR: RAL 6018 GREEN

2. MECHANICAL PROPERTIES:
1. BEND RADIUS: ≥4X OD WITHOUT LOAD, ≥8X OD WITH LOAD
 2. TEMPERATURE RANGE:
DURING OPERATION: -40°C UP TO 80°C
DURING INSTALLATION: 0°C UP TO 50°C
 3. FIRE RATING:
MATERIAL: PUR
FIRE RATING: IEC 60332-1
 4. OIL RESISTANCE TO UL 758 60°C
 5. UV RESISTANCE TO IEC 60068-2-5

MECHANICAL PROPERTIES	TESTING METHOD	SPECIFICATION
TENSILE INITIAL	UL 1581	MIN 10.3 Mpa
ELONGATION INITIAL		MIN 100%
HEAT AGING (TENSILE)		MIN 70% OF UNAGED SPECIMENS
HEAT AGING (ELONGATION)		MIN 65% OF UNAGED SPECIMENS
HYDROLYSIS (TENSILE)	VDE HD 22.10	±30% OF UNHYDROLYZED SPECIMENS
HYDROLYSIS (ELONGATION)		MIN 300%
		±30% OF UNHYDROLYZED SPECIMENS

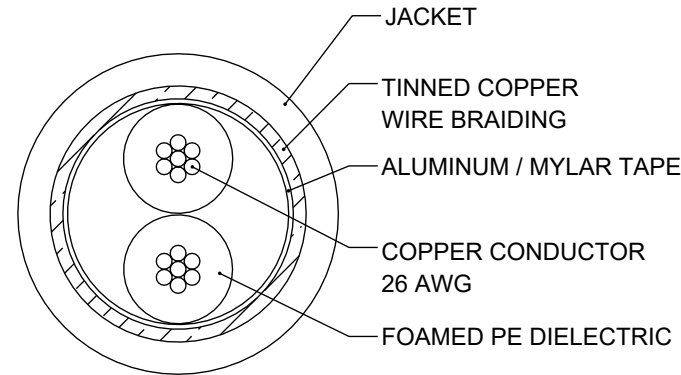
3. REFERENCE STANDARD: IEC 61156-12
4. ELECTRICAL PROPERTIES (AT 20°C ±5°C)
1. DC RESISTANCE: MAX 14.5Ω /100m AT 20°C
 2. RESISTANCE UNBALANCE: MAX 2% AT 20°C
 3. INSULATION RESISTANCE (500V): MIN 5000 MΩ/Km AT 20°C
 4. MUTUAL CAPACITANCE: MAX 5.6nf/100m AT 1kHz
 5. CAPACITANCE UNBALANCE (PAIR TO GROUND): MAX 160pf/100m AT 1kHz
 6. NOMINAL VELOCITY OF PROPAGATION: NOM 67%
 7. TEST VOLTAGE (AC, 1 min): 2kV/1min
 8. COUPLING ATTENUATION: TYPE I

5. TRANSMISSION PERFORMANCE ACC. TO IEC 61156-12 (AT 20°C/100m):

FREQUENCY (MHz)	IMPEDANCE (Ω)	INSERTION LOSS (dB) MAX	RETURN LOSS (dB) MIN	PROPAGATION DELAY (ns) MAX	
1	100±15	3.1	20.0	570	
4		5.6	23.0	552	
10		8.7	25.0	545	
16		11.0	25.0	543	
20		12.2	25.0	542	
31.25		15.5	23.2	541	
62.5		21.8	20.8	538	
100	100±22	27.8	19.0	538	
125		31.2	18.2	537	
200		39.7	16.4	537	
250		44.6	15.6	536	
300		49.0	15.6	536	
500		100±25	64.1	15.6	536
600			70.7	15.6	536

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

REVISION					
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	02/17/2025	HBAKKE	GUTTADAURO



CROSS-SECTIONAL VIEW


CABLE LENGTH		
PART NO.	FEET	METERS
TSPE06-10M	32.8	10
TSPE06-50M	164.0	50

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

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

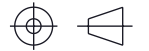
CABLE LENGTH TOLERANCES:
 ≤12 [305] = +1 [25] / -0
 >12 [305] ≤ 60 [1524] = +2 [51] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0
 >300 [7620] = +5% / -0

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.



an INFINIT@ brand

Website: www.L-com.com
Phone: 1.800.341.5266 | 1.978.682.6936



INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE	SHEET
NONE	1 OF 1

DESCRIPTION
SINGLE PAIR ETHERNET (SPE) BULK CABLE, 26AWG STRANDED, NO FILLER 3.9mm, DOUBLE SHIELDED, SF/TP, INDUSTRIAL OUTDOOR, PUR GREEN

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	HBAKKE	TSPE06	A