# Berk-Tek LANmark-C851 Cat 5e PLTC High Flex 2-Pr Shielded TPE



Berk-Tek LANmark Industrial Heavy-Duty Ethernet Cables enable the expansion and integration of Ethernet into the Industrial environment. With over 50 years of manufacturing expertise, you can be sure these Industrial Cables will perform both mechanically and electrically. This cable is specifically designed to meet the requirements of PLTC and ITC listings. With its 600V AWM design, durable TPE jacket, cold-bend performance, and resistance to oil, weld spatter, and sunlight, this cable is suitable for the most demanding, continuous-motion, industrial applications. This product has both a foil shield and a braid to protect against low- and high-frequency noise on the factory floor. Additionally, the stranded conductors also help maintain performance in a high-vibration environment. Per the NFPA 70 and NEC 500, this PLTC cable is permitted to be installed in Class I, Division 2, hazardous locations.

### DESCRIPTION

#### Construction

22 AWG stranded tinned copper wire insulated with HDPE. Two insulated conductors twisted together to form a pair and two such pairs to form the basic unit, enclosed by foamed PP tape and shielded with a 75% optical coverage braid and an aluminum/ polyester tape contained within a TPE jacket.

#### **Related Standards**

Low Voltage - EU Directive 2014/35/EU, CE Approved

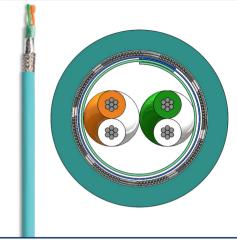
RoHS - EU Directive 2011/65/EU

PoE+ - Type 2 (802.3at)

Ratings			
Description	Method		
Listed Type	UL1685	СМ	
Listed Type	UL444	CMX Outdoor	
Listed Type	UL13 / UL2250	PLTC / ITC	
Oil Resistance	UL1277 12.2	II (75°C)	
Sunlight Resistance	UL444 (7.22)	Yes (720 hrs)	
Attributoo			

Attributes			
Description	Method		
AWM Style	UL758	2463 (600V, 80°C)	
Flex Life	C-Track, 2" radius	> 35 million cycles	
Flex Life	Torsion (+/- 180°)	> 5 million cycles	
Installation Pull Tension (Max):			
Bend Radius: > 3 inch	Internal	40 lbs.	
Bend Radius: > 1.24 inch	TIA 568-C.0	25 lbs.	
Abrasion	UL2556 7.10	75 cycles/1.5 lb. load	

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## EtherNet/IP<sup>\*</sup> ODVA Compliant

### **STANDARDS**

International ISO/IEC 11801; ODVA EtherNet/IP Compliant

National ANSI/TIA-568.2-D; UL 444

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## **CHARACTERISTICS**

(	Construction characteristics	
	Conductor material	22 AWG Stranded Tinned Copper (19/.0058)
	Insulation	HDPE
	Jacket Material	TPE
	Braid	Tinned copper - 75% optical coverage
	Shielding	Aluminum/Polyester
	Core Tape	Foamed polypropylene
I	Dimensional characteristics	
	Insulated conductor diameter (Nominal)	0.058 in
	Average jacket thickness	0.04 in
	Minimum jacket thickness at any point	0.032 in
	Cable diameter (Nominal)	0.31 in
	Nominal cable weight	46 lb/kft
	Length per reel	1000.0 ft
I	Usage characteristics	
	Minimum Bending Radius - Install	2.48 in
	Recommended installation temperature range	-20 80 °C
	Recommended operating temperature range	-40 80 °C
	Recommended storage temperature range	-40 80 °C
	Cold Bend	-40 °C
	Weld spatter resistance	Yes

## **PRODUCT LIST**

	Part Number	Description	Packaging	Colour
壘	11100661	LANmark-C851 Cat 5e PLTC High Flex 2-Pr Shielded TPE	Reel	Teal
			📞 = Make to order,	🛱 = In stock

## LANMARK-C851 - TECHNICAL INFORMATION

Transmission Characteristics			
Description			
ISO/IEC 11801		Category 5	
ANSI/TIA-568.2-D		Category 5e	
Coupling Attenuation	IEC 61156-5	Туре І	
Transfer Impedance	IEC 61156-5	Grade 2	
Nominal velocity of propagation		66%	
ODVA EtherNet/IP™ Compliant		Category 5e	
Color Code			
Pair-1	White/Orange	Orange	
Pair-2	White/Green	Green	

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