

Product: <u>7704ELW</u> ⊠ LonWorks, 2PR #22 Sol BC, PO ins, OS, LSNH Jkt, 300V, Cca

Product Description

LonWorks, 2 Pair AWG 22 Bare Copper - Solid, Polyolefin (PO, PE, PP) insulation, Overall Beldfoil® shielding, LSZH / FRNC jacket , 300V, CPR Cca

Technical Specifications

Product Overview

Suitable Applications:			Lor	nWorks, instru	nent	ation, Low capacit	ance			
Physical Characteristics (Overall)										
Condu										
AWG	3		aterial	Nominal			irs			
22	Solid	BC - Ba	are Copper	0.64 mm		2				
Condu	uctor Count:				4					
Total I	Number of P	airs:			2					
nsulat	tion									
	Material		Nominal D	iameter	Min. W	all Thickness				
PE - F	Polyethylene	(Foam)	1.35 mm		0.3 mm					
olor (Chart									
Numb		Colo	or							
Pair 1	White/B	lue & Blu	ue/White							
Pair 2	Orange	White &	White/Oran	ge						
Table	Notes:				Rin	ig marking app	lied			
Jutor	Shield									
Type		terial	Cov	erage [%]	Drain	wire Material	Dra	ainwire Diameter	Drain	wire AWG
Таре						inned Copper		1 mm	24	
Table	Notes:				Alu	minum inside				
Duter .	Jacket									
1070	- Low Smok	Mate			No	ominal Diame	ter	Diameter +/- Tole	rance	Min. Wall Thick
Retard			alogen (Fiai	ne	6.	5 mm	1	0.4 mm		0.5 mm
_										
Jons	struction	and D	imensio	15						
Cablin	g									
Description										
2 pairs	s twisted to c	able cor	e							
			_							
lect	rical Cha	racter	istics							

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	
55 Ohm/km	17 Ohm/km	

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
40 pF/m	65 pF/m

Inductance

Nominal Pair Inductance 0.65 µH/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
1 - 20	100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss	Nom. NEXT [dB]
0.772 MHz	1.8 dB/100m	
1 MHz	2 dB/100m	59 dB
4 MHz	3.6 dB/100m	50 dB
10 MHz	5.5 dB/100m	44 dB
16 MHz	7 dB/100m	41 dB
20 MHz	7.8 dB/100m	40 dB

Current

Element	Max. Recommended Current [A]		
Conductor(s)	2.5 Amps per Conductor		

Voltage

Voltage Ratir	
300 V	

Temperature Range

g [V]

Operating Temperature Range:	-15°C To +80°C
Mechanical Characteristics	

	Bulk Cable Weight:	40.2 kg/km
	Max. Pull Tension:	50 N
	Min. Bend Radius During Installation:	80 mm

Standards

CPR Euroclass:	Cca-s1,d1,a1

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Cca

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
IEC 60754-1 - Halogen Amount:	Zero

Related Part Numbers

Variants

Item # 7704ELW.00305

History

Update and Revision:

Revision Number: 0.43 Revision Date: 06-28-2024

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