

	Product: 98	8 <u>42NH</u> (3			
	RS485, 2 Pi	r #24 St	tr TC, PO	Ins, OS+T	C Brd, L	SZH Jkt, Dca
REPRESENTING MAKE						
Product Description	Tinned Copper P) Insulation	Overall Beldfoi	R+Tinned Copp	er Braid(90%)) Shield, LSZH Outer Jacket, CPR Dca
Technical Specifications		e mealation,	, e e e an e e a e a			,,
Product Overview	6					
Suitable Applications:	RS-485, POS; Comput communication (RS-48	er communicatio 5 standard) com	ons; Low Voltage Ana prising of PLCs, VFD	log Signals (4-20ma, 0)s, HMls, motors, RTU)-10v,); Low Vol , SCADA, etc. with	Itage Digital Control (24v,); Line Level Audio; Panel Wiring; serial hin noisy environments over long distance, etc.
Physical Characteristics (O	verali)	U,				
Conductor						
AWG Stranding Material 24 7x32 TC - Tinned Copp	No. of Pairs er 2					
Conductor Count:	4					
Total Number of Pairs:	2			X		
Insulation				0		
Material Nominal Diamete	r Diameter +/- Tolerance	Nominal Wa	II Thickness			
PE - Polyethylene 1.73 mm	0.05 mm	0.02 in			C	
Color Chart						
Number Color						
Pair 1 White/Blue & Blue/White						
Pair 2 White/Orange & Orange/W	ite					^
Outer Shield Material						C
Type Layer Material	Material Trade Name			Drainwire Material		Drainwire Construction n x D
Tape 1 Bi-Laminate (Alum+Po Braid 2 Tinned Copper (TC)	y) Beldfoil® (Z-Fold®)	100% 90%	9 / 23 µm	TC - Tinned Copper	AWG24/7	7x32
		3070				
Outer Jacket Material						
Material LSZH - Low Smoke Zero Halogen (Fla				minal Wall Thickness		
Construction and Dimensio		(AL 1037) 0.0	0.9			
Stranding						·
Lay DirectionTwistsLeft Hand12 twist/ft						
Cabling						
Description 2 pairs and 2 fillers twisted to cable co	Filler re Polypropylene (2x) (W	hite, 2.87 mm)				
Electrical Characteristics						

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	7.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
42 pF/m	75.5 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
1	120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion	Loss
1 MHz	1.97 dB/100m	
Delay	4	
Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.54 ns/ft	66%
Current		
Element Max.	Recommended C	Current [A]

Element	Max. Recommended Current [A]	
Conductor	2.1 Amps per Conductor	

Voltage

Temperature Range

Element Max. Recommended Curr	
Conductor 2.1 Amps per Conductor	
Voltage	
Voltage Rating [V] 300 V	
300 V	
Temperature Range	
Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-20°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C
Mechanical Characteristics	

Mechanical Characteristics

Oil Resistance:	IEC 60811-404	
Bulk Cable Weight:	49 lbs/1000ft	
Max. Pull Tension:	395 N	Y X
Min Bend Radius During Installation:	86.5 mm	
Min Bend Radius/Minor Axis:	3.25 in	
Standards		

Standards

		-	
CPR Euroclass:	Dca-s2,d2,a1	7	
CENELEC Compliance:	EN 50290-2-27		

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca	
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)	
EU CE Mark:	Yes	
EU RoHS Compliance Date (yyyy-mm-dd):	2012-05-10	
MII Order #39 (China RoHS):	Yes	

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 - Smoke Density Min. Transmittance:	60%

Plenum/Non-Plenum

Plenum (Y/N):

Part Number

/ariants	0			
ltem #	Color	Putup Type	Length	UPC/EAN
9842NH.02500	Black	Reel	500 m	8719605023308
9842NH.02520	Black	Reel	520 m	8719605172129
9842NH.021000	Black 📢	Reel	1,000 m	8719605155405
9842NH.022500	Black	Reel	2,500 m	8719605023292
9842NH.00152	Chrome	Reel	152 m	8719605023230
9842NH.00305	Chrome	Reel	305 m	8719605023254
9842NH 060500	Chrome	Reel	500 ft	612825259572
9842NH.00500	Chrome	Reel	500 m	8719605023261
9842NH 0601000	Chrome	Reel	1,000 ft	612825259565
9842NH 0601000	Chrome	Reel	1,000 ft	612825259565
9842NH.001000	Chrome	Reel	1,000 m	8719605023223
9842NH.002500	Chrome	Reel	2,500 m	8719605023247
9842NH.01305	White	Reel	305 m	8719605023285
9842NH.01500	White	Reel	500 m	8719605184795
9842NH.011000	White	Reel	1,000 m	8719605023278
Footnote: C -				REEL PUT-UP.

No

History

Update and Revision: Revision Number: 0.437 Revision Date: 03-16-2021

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