

<u>v</u>	Product: <u>98</u>	<u>841NH</u> (	3			
	RS485, 1 Pi	<sup>-</sup> #24 St	r TC, PO	Ins, OS+T	C Brd, I	LSZH Jkt, Dca
Š.	î	Request S	ample			
Product Description RS-485, 1 Pair 24AWG (7x32)	Tinned Copper, Po	D Insulation,	Overall Beldfo	l®+Tinned Copp	er Braid(90%	ა) Shield, LSZH Outer Jacket, CPR Dca
Technical Specifications						
Product Overview						
Suitable Applications:	RS-485, POS; Comput communication (RS-48	er communicatio 5 standard) com	ns; Low Voltage An prising of PLCs, VF	alog Signals (4-20ma, Ds, HMIs, motors, RTU	0-10v,); Low V J, SCADA, etc. w	foltage Digital Control (24v,); Line Level Audio; Panel Wiring; serial ithin noisy environments over long distance, etc.
Physical Characteristics (Ov	verall)	L				
Conductor						
AWGStrandingMaterial247x32TC - Tinned Coppet	No. of Pairs					
Conductor Count:	2		- 0			
Total Number of Pairs:	1					
Insulation				6		
Material         Nominal Diameter           PE - Polyethylene         1.73 mm	Diameter +/- Tolerance			S'S		
Color Chart	1					
Number Color						
Pair 1 White/Blue & Blue/White					9	¢
Outer Shield Material					- <b>-</b>	0
Type Layer Material	Material Trade Name			Drainwire Material	Drainwire AWC	
Tape         1         Bi-Laminate (Alum+Poly           Braid         2         Tinned Copper (TC)	/) Beldfoil®	100% 90%	9 / 23 µm	TC - Tinned Copper	AWG24/7	7x32
Braid 2 Tillied Copper (TC)		90 %				
Outer Jacket Material					_	
Material				minal Wall Thickness	5	
LSZH - Low Smoke Zero Halogen (Flan Construction and Dimension		KAL 7037) 6. IC	0.e	mm		
Lay Direction         Twists           Left Hand         5.333 twist/ft						
Cabling						
Description 1 pair and 2 fillers twisted to cable core	Filler Polypropylene (2x) (Wh	ite, 1.90 mm)				
Electrical Characteristics		,				

Conductor DCR

78.7 Ohm/km 11.0 Ohm/	
Capacitance Nom. Capacitance Conductor to Cor	nductor Nom. Capacitance Conductor to Other Conductor to Shield
42 pF/m	75.5 pF/m
mpedance	
Frequency [MHz] Nominal Characte	ristic Impedance
1 120 Ohm	
ligh Frequency (Nominal/Typical)	
Frequency [MHz] Nom. Insertion Lo	ss
1 MHz 1.97 dB/100m	
Delay	
	ominal Velocity of Propagation (VP) [%]
	5%
urrent	
Element Max. Recommended Cur	
Conductor 2.1 Amps per Conductor	
oltage	
Voltage Rating [V]	
300 V	
emperature Range	
emperature Mange	
	-15°C To +80°C
Installation Temp Range:	-15°C To +80°C -45°C To +80°C
Installation Temp Range: Storage Temp Range:	
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install):	-45°C To +80°C
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install):	-45°C To +80°C -20°C To +75°C
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install):	-45°C To +80°C -20°C To +75°C -15°C To +80°C
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible	-45°C To +80°C -20°C To +75°C -15°C To +80°C
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): Mechanical Characteristics	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): Mechanical Characteristics Oil Resistance:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404
Installation Temp Range: Storage Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension:	-45°C To +80°C         -20°C To +75°C         -15°C To +80°C         -45°C To +80°C         IEC 60811-404         33 lbs/1000ft
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Nechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N
Installation Temp Range: Storage Temp Range: Deperating Temp Range: Deperating Temp Range (Flexible nstall): Deperating Temp Range (Fixed Install): Iechanical Characteristics Dil Resistance: Bulk Cable Weight: Max. Pull Tension: Vin Bend Radius During Installation: Vin Bend Radius/Minor Axis:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards	-45°C To +80°C         -20°C To +75°C         -15°C To +80°C         -45°C To +80°C         IEC 60811-404         33 lbs/1000ft         328 N         61 mm         2.5 in
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass: CENELEC Compliance:	-45°C To +80°C         -20°C To +75°C         -15°C To +80°C         -45°C To +80°C         IEC 60811-404         33 lbs/1000ft         328 N         61 mm         2.5 in
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Aechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: <b>Standards</b> CPR Euroclass: CENELEC Compliance: Applicable Environmental at	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 in Dca-s2,d1,a1 EN 50290-2-27 ad Other Programs
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Iechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Vin Bend Radius During Installation: Vin Bend Radius/Minor Axis: <b>Standards</b> CPR Euroclass: CENELEC Compliance: <b>Applicable Environmental an</b> Environmental Space:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 in Dca-s2,d1,a1 EN 50290-2-27 Contemport Second
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass: CENELEC Compliance: Applicable Environmental and Environmental Space: EU Directive Compliance:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C EC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 ln Dca-s2,41,a1 EN 50290-2-27 Colorer Programs
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass: CENELEC Compliance: Applicable Environmental an Environmental Space: EU Directive Compliance: EU Directive Compliance:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 in Dca-s2,d1,a1 EN 50290-2-27 Contemport Programs Indoor - Euroclass Dea EU Directive 2003/11/EC (BFR) Yes
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): Mechanical Characteristics Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass: CENELEC Compliance: Applicable Environmental and Environmental Space: EU Directive Compliance:	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C EC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 ln Dca-s2,41,a1 EN 50290-2-27 Colorer Programs
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Jechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass: CENELEC Compliance: EVENELEC Compliance: EU Directive Compliance: EU Directive Compliance: EU CE Mark: EU RoHS Compliance Date	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 in Dca-s2,d1,a1 EN 50290-2-27 Contemport Programs Indoor - Euroclass Dea EU Directive 2003/11/EC (BFR) Yes
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): <b>Mechanical Characteristics</b> Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: <b>Standards</b> CPR Euroclass: CENELEC Compliance: EU Directive Compliance: EU Directive Compliance: EU CE Mark: EU RoHS Compliance Date (yyy-mm-dd):	-45°C To +80°C -20°C To +75°C -15°C To +80°C -45°C To +80°C IEC 60811-404 33 lbs/1000ft 328 N 61 mm 2.5 in Dca-s2,d1,a1 EN 50290-2-27 Contemport Programs Indoor - Euroclass Dea EU Directive 2003/11/EC (BFR) Yes
Installation Temp Range: Storage Temp Range: Operating Temp Range: Operating Temp Range (Flexible Install): Operating Temp Range (Fixed Install): Acchanical Characteristics Oil Resistance: Bulk Cable Weight: Max. Pull Tension: Min Bend Radius During Installation: Min Bend Radius/Minor Axis: Standards CPR Euroclass: CENELEC Compliance: EU Directive Compliance: EU Directive Compliance: EU CE Mark: EU CE Mark: EU CE Mark: EU RelS Compliance Date (yyyy-mm-dd): Suitability	45°C To +80°C -20°C To +75°C -15°C To +80°C 45°C To +80°C EC 60811-404 33 lbs/1000R 328 N 61 mm 2.5 in Dea-s2,d1,a1 EN 50290-2-27 Indeor - Euroclass Dea EU Directive 2003/11/EC (BFR) Yes 2005-01-01

IEC Flammability:	IEC 60332-3-24 and IEC 60332-3-22
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): No
------------------

## Part Number

Variants				
Item #	Color	Putup Type	Length	UPC/EAN
9841NH.00152	Chrome	Reel	152 m	8719605022929
9841NH.00305	Chrome	Reel	305 m	8719605022936
9841NH.K0305	Chrome	Reel	305 m	8719605177629
9841NH.00500	Chrome	Reel	500 m	8719605022943
9841NH 0601000	Chrome	Reel	1,000 ft	612825259497
9841NH 0601000	Chrome	Reel	1,000 ft	612825259497
9841NH.001000	Chrome	Reel	1,000 m	8719605022912
Footnote:			C - CRATE	REEL PUT-UP.
History				0/
Undate and Revisi	ion:		Revision N	lumber: 0.495 Rev

Update and Revision: Revision Number: 0.495 Revision Date: 03-16-2021

© 2021 Belden, Inc

## All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale

Beiden believes this product to be in compliance with all applicable environmental programs as listed in the ford as the L. The information provided is correct to the best of Belden's knowledge, information and bellef bible due to its significant of the safe handling sorrage, and any other goreduct its effort bene that it here any bible into bible due to its significant of the safe handling sorrage, and any other goreduct its effort bene that it here applicability of legislation and bible due to its sorrage of the product.