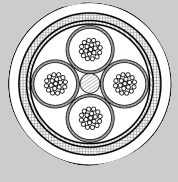
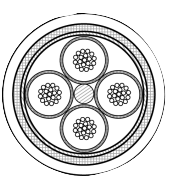
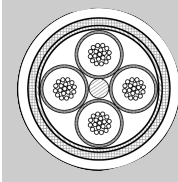
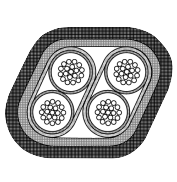
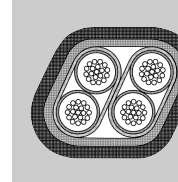


# NETflight™ Ethernet

## Aerospace Grade 100BASE-T Ethernet Cables

					
	NF26Q100-01	NF24Q100-01	NF22Q100-01	NF24P100	NF22P100
<b>Conductor AWG Size (19 Strand)</b>	26	24	22	24	22
<b>Conductor Material</b>	SCCA	SCCA	SCC	SCCA	SCC
<b>Nom Conductor Diameter (in)</b>	0.0189	0.0233	0.0295	0.0233	0.0295
<b>Insulation Material</b>	PTFE	PTFE	PTFE	PTFE	PTFE
<b>Nom Insulation Diameter (in)</b>	0.038	0.045	0.055	0.063	0.070
<b>Pair #1</b>	Red, Blue	Red, Blue	Red, Blue	Red, Red/Black	Red, Red/Black
<b>Pair #2</b>	Yellow, Green	Yellow, Green	Yellow, Green	Blue, Blue/Black	Blue, Blue/Black
<b>Nom Cable Diameter (in)</b>	0.137	0.163	0.190	0.175 × 0.270	0.195 × 0.290
<b>Nom Cable Weight (lbs/1000 ft)</b>	18.0	24.5	34.5	35.0	43.0
<b>Impedance ± 10%(Ω)</b>	100	100	100	100	100
<b>Nom Capacitance (pF/ft)</b>	13	13	13	13	13
<b>Nom Velocity of Propagation</b>	80%	80%	80%	80%	80%
	<b>10 MHz</b> <b>100MHz</b>	<b>10 MHz</b> <b>100MHz</b>	<b>10 MHz</b> <b>100MHz</b>	<b>10 MHz</b> <b>100MHz</b>	<b>10 MHz</b> <b>100MHz</b>
<b>Nom/Max Attenuation (dB/100 ft)</b>	2.5/3.2 9.3/11.0	2.3/2.7 8.0/9.2	1.8/2.2 6.4/7.3	1.8/2.1 6.0/7.1	1.6/2.0 5.6/6.7
<b>Min NEXT (dB)</b>	50 35	50 35	50 35	53 38	53 38
<b>Min SRL(dB)</b>	23 16	23 16	23 16	23 16	23 16
<b>Cable Budget Length to meet CAT5e Requirements</b>	200 ft (61m)	240 ft (73m)	300 ft (91m)	310 ft (94m)	330 ft (100m)

Shielding consists of inner TCC flat braid and outer TCC round braid. The jackets are extruded FEP. The cables are rated for maximum service of 150° C (200° C rated cables available upon request).

Flammability meets or exceeds FAR25.869 requirements. Smoke and toxicity meet or exceed Boeing and Airbus requirements.

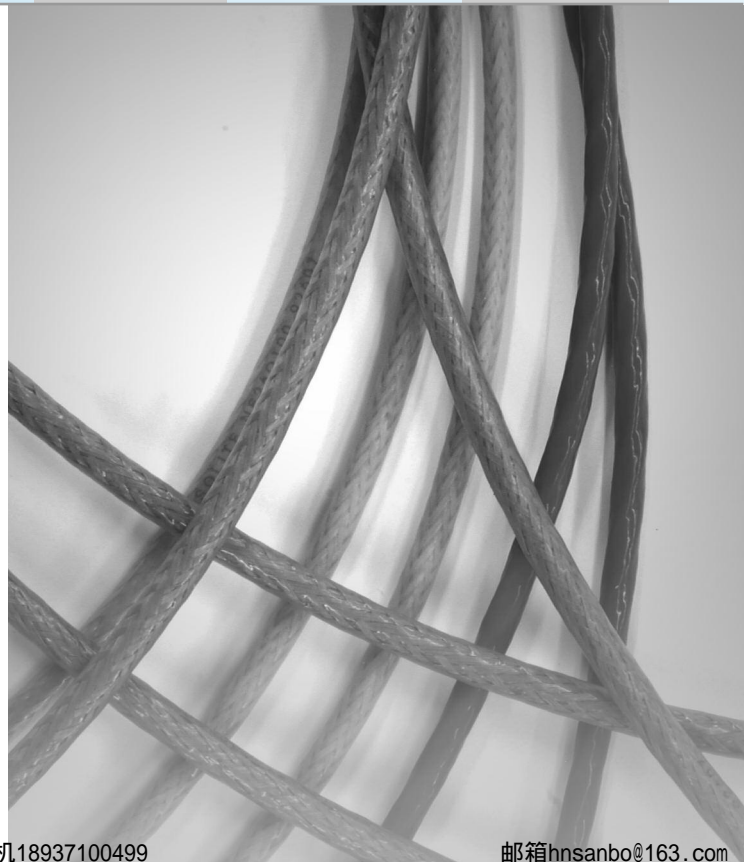
**TCC-Tin-Coated  
Copper**

**SCC-Silver-Coated  
Copper**

**SCCA-Silver-Coated  
Copper Alloy**

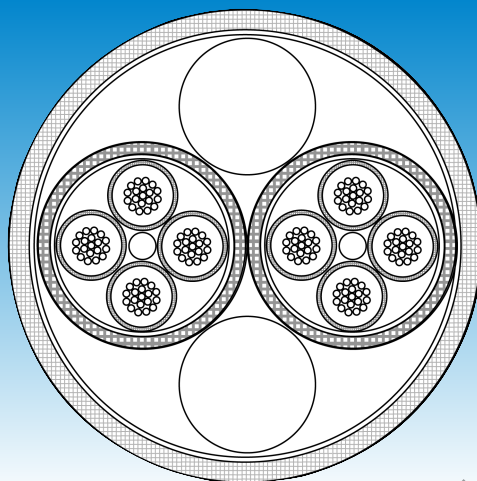
**Tensolite**

A CARLISLE Company



# NETflight™ Ethernet

## QUADRAX & RJ-45 Compatible Aerospace Grade 1000BASE-T GIGABIT Ethernet Cables



Part Number	NF26-2Q100			NF24-2Q100		
Conductor AWG Size (19 Strand)	26			24		
Conductor Material	SCCA			SCCA		
Nom Conductor Diameter (in)	0.0190			0.0233		
Insulation Material	PTFE			PTFE		
Nom Insulation Diameter (in)	0.038			0.045		
Color:	<b>Quad #1</b>	<b>Quad #2</b>		<b>Quad #1</b>	<b>Quad #2</b>	
Pair #1	White	Blue		White	Blue	
Pair #2	Red—Blue	Red—Blue		Red—Blue	Red—Blue	
Pair #2	Yellow—Green	Yellow—Green		Yellow—Green	Yellow—Green	
Nom Cable Diameter (in)	0.265			0.305		
Nom Cable Weight (lbs/1000 ft)	45.0			58.0		
Impedance $\pm 10\%$ ( $\Omega$ )	100			100		
Nom Capacitance (pF/ft)	13			13		
Nom Velocity of Propagation	80%			80%		
Nom/Max Attenuation (dB/100 ft)	<b>1 MHz</b>	<b>10 MHz</b>	<b>100 MHz</b>	<b>1 MHz</b>	<b>10 MHz</b>	<b>100MHz</b>
Min NEXT (dB)	0.9/1.0	2.5/3.2	9.3/11.0	0.7/0.8	2.3/2.7	8.0/9.2
Min RL(dB)	65.3	50.3	35.3	65.3	50.3	35.3
Min RL(dB)	20.0	25.0	19.0	20.0	25.0	19.0
Cable Budget Length to meet CAT5e Requirements	200 ft (61m)			240 ft (73m)		

Shielding consists of TCC braids. The jackets are extruded FEP. The cables are rated for maximum service of 150°C.

Flammability meets or exceeds FAR25.869 requirements.

Smoke and toxicity meet or exceed Boeing and Airbus requirements.

SCCA – Silver Coated Copper Alloy

TCC – Tin Coated Copper

## Tensolite

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