

N Type Specifications 29



ELECTRICAL

Impedance	50 ohms
Frequency	DC to 11GHz or DC to 6GHz
VSWR	$1.15 + 0.015f(\text{GHz})$ (cable fixing)
Insertion Loss	0.2dB Maximum
RF Leakage	-80dB Minimum
Insulation Resistance	5Gohms Minimum
Inner Contact Resistance	1.0mohms Maximum
Outer Contact Resistance	0.2mohms Maximum
Working Voltage	1500V RMS
Dielectric Withstanding Voltage	2500V RMS

MECHANICAL

Durability	500 mating cycles
Cable Retention	Equal to cable breaking strain

ENVIRONMENTAL

Temperature Range	-65 to +165 degrees centigrade
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MATERIALS

Bodies	Brass, Nickel Plated
Pins	Brass, Gold Plated
Contacts	Phosphor Bronze, Gold Plated
Ferrules	Brass, Nickel Plated
Insulators	PTFE
End Caps	Brass, Nickel Plated
Gaskets	Silicon Rubber
Springs	Steel, Nickel Plated
Panel Nuts	Brass, Gold or Nickel Plated
Panel Washers	Brass, Gold or Nickel Plated

All products are manufactured in accordance with MIL-C-39012.

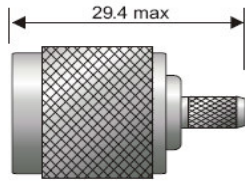
The above specifications are typical although some variations may occur.

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30 N Type Cable Fixing

Crimp Plug



F1: Straight Ferrule



F3: Fluted Ferrule with insulator



PART NUMBER	CABLE TYPE	FERRULE	STRIP DIMS	HEX SIZES
NT15-0519-C06	RA519, LMR400, 9913	F1	N11	H12
NT15-D316-C06-1	RD316	F3	N13	H3
NT15-0400-C06	RG142, 223, 400	F1	N12	H3
NT15-0174-C06-1	RG174, 188, 316	F3	N13	H3
NT15-0179-C06-1	RG179, 187	F3	N13	H3
NT15-0213-C06	RG213	F1	N11	H6
NT15-0214-C06	RG214	F1	N11	H6
NT15-0058-C06	RG58, URM43	F1	N12	H3
NT15-0059-C06	RG59, 62, URM70	F1	N12	H4

CRIMP HEX SIZES (ferrule / contact)

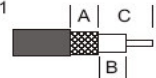
H3	5.41mm	1.69mm
H4	6.48mm	1.69mm
H6	10.90mm	2.54mm
H12	10.90mm	2.95mm

Strip Dimensions - see Illustration S.1

N11: A = 10.0mm B = 1.0mm C = 4.0mm
 N12: A = 8.0mm B = 3.0mm C = 4.0mm
 N13: A = 12.0mm B = 1.0mm C = 3.0mm

See pages 85-86 for application tooling

Illustration S.1



Crimp Right Angle Plug

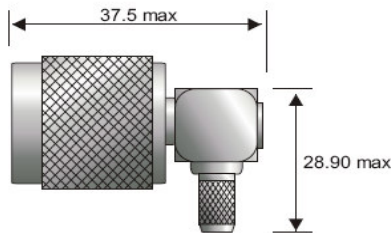


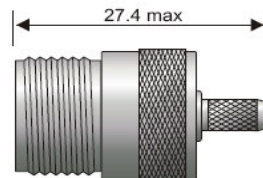
Illustration representative of cables up to 6mm overall diameter. RG213 and RG214 types have larger ferrule and rear block.

PART NUMBER	CABLE TYPE	FERRULE	STRIP DIMS	HEX SIZES
NT17-0519-C06	RA519, LMR400, 9913	F1	N14	H6
NT17-D316-C06-1	RD316	F3	N15	H3
NT17-0400-C06	RG142, 223, 400	F1	N16	H3
NT17-0174-C06-1	RG174, 188, 316	F3	N15	H3
NT17-0179-C06-1	RG179, 187	F3	N15	H3
NT17-0213-C06	RG213	F1	N14	H6
NT17-0214-C06	RG214	F1	N14	H6
NT17-0058-C06	RG58, URM43	F1	N16	H3
NT17-0059-C06	RG59, 62, URM70	F1	N16	H4

Strip Dimensions - see Illustration S.1

N14: A = 10.0mm B = 5.0mm C = 5.0mm
 N15: A = 12.0mm B = 5.0mm C = 3.0mm
 N16: A = 9.0mm B = 9.0mm C = 3.0mm

Crimp Jack



PART NUMBER	CABLE TYPE	FERRULE	STRIP DIMS	HEX SIZES
NT10-0519-C06	RA519, LMR400, 9913	F1	N17	H12
NT10-D316-C06	RD316	F3	N18	H3
NT10-0400-C06	RG142, 223, 400	F1	N19	H3
NT10-0174-C06-1	RG174, 188, 316	F3	N18	H3
NT10-0179-C06-1	RG179, 187	F3	N18	H3
NT10-0213-C06	RG213	F1	N17	H6
NT10-0214-C06	RG214	F1	N17	H6
NT10-0058-C06	RG58, URM43	F1	N19	H3
NT10-0059-C06	RG59, 62, URM70	F1	N19	H4

Strip Dimensions - see Illustration S.1

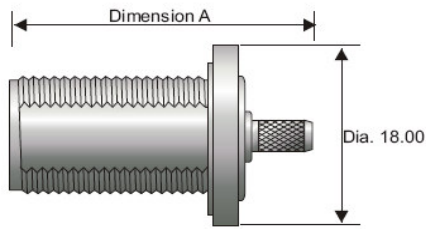
N17: A = 9.0mm B = 2.0mm C = 4.0mm
 N18: A = 11.0mm B = 2.0mm C = 3.0mm
 N19: A = 9.0mm B = 2.0mm C = 3.0mm

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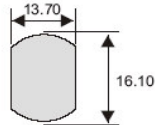
N Type Cable Fixing 31

Crimp Bulkhead Jack



Max. Panel thickness:
DIMENSION A = 26.70: 2.50mm
DIMENSION A = 37.50: 9.50mm

PART NUMBER	CABLE TYPE	DIMENSION A	FERRULE	STRIP DIMS	HEX SIZES
NT02-D316-C06-1	RD316	26.70	F3	N21	H3
NT02-0400-C06	RG142, 223, 400	26.70	F1	N20	H3
NT02-0174-C06-1	RG174, 188, 316	26.70	F3	N21	H3
NT02-0179-C06-1	RG179, 187	26.70	F3	N21	H3
NT02-0058-C06	RG58, URM43	26.70	F1	N20	H3
NT02-0059-C06	RG59, 62, URM70	26.70	F1	N20	H4
NT02-0058-C06-1	RG58, URM43	37.50	F1	N22	H3
NT02-0400-C06-1	RG142, 223, 400	37.50	F1	N22	H3



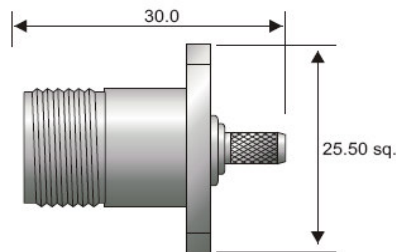
Strip Dimensions - see Illustration S.1

N20: A = 9.0mm B = 2.0mm C = 4.0mm

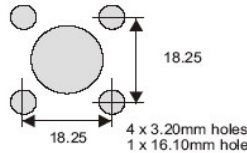
N21: A = 12.0mm B = 3.0mm C = 3.0mm

N22: A = 8.0mm B = 8.0mm C = 4.0mm

Crimp Flange Jack



PART NUMBER	CABLE TYPE	FERRULE	STRIP DIMS	HEX SIZES
NT06-D316-C06-1	RD316	F3	N23	H3
NT06-0400-C06	RG142, 223, 400	F1	N24	H3
NT06-0174-C06-1	RG174, 188, 316	F3	N23	H3
NT06-0179-C06-1	RG179, 187	F3	N23	H3
NT06-0058-C06	RG58, URM43	F1	N24	H3
NT06-0059-C06	RG59, 62, URM70	F1	N24	H4

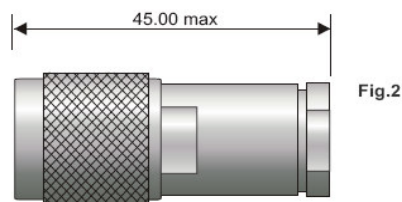
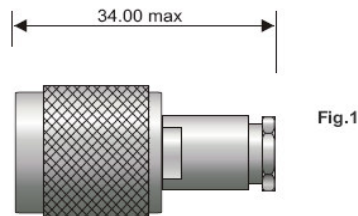


Strip Dimensions - see Illustration S.1

N23: A = 13.0mm B = 1.0mm C = 4.0mm

N24: A = 8.0mm B = 2.0mm C = 4.0mm

Clamp Plug



PART NUMBER	CABLE TYPE	STRIP DIMS	FIG.
NT15-0519-L06	RA519, LMR400, 9913	N25	2
NT15-0400-L06	RG142, 223, 400	N26	1
NT15-0213-L06	RG213	N25	2
NT15-0214-L06	RG214	N25	2
NT15-0058-L06	RG58, URM43	N26	1
NT15-0059-L06	RG59, 62, URM70	N26	1

Strip Dimensions - see Illustration S.2

N25: A = 9.0mm B = 5.0mm C = 4.0mm

N26: A = 5.0mm B = 2.0mm C = 3.0mm

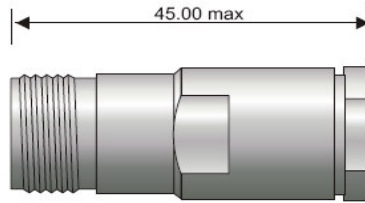


Crimp Hex Sizes:

See Page 30 for ferrule styles and crimp hex sizes.

32 N Type Cable Fixing and Adaptors

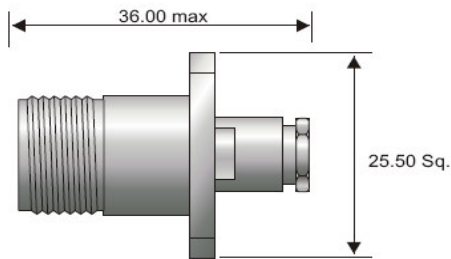
Clamp Jack



PART NUMBER	CABLE TYPE	STRIP DIMS
NT10-0519-L06	RA519, LMR400, 9913	N27
NT10-0213-L06	RG213	N27
NT10-0214-L06	RG214	N27

Strip Dimensions - see Illustration S.2
N27: A = 8.0mm B = 4.0mm C = 4.0mm

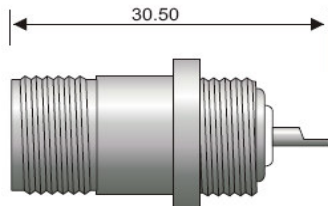
Clamp Flange Jack



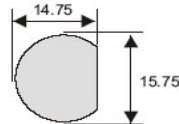
PART NUMBER	CABLE TYPE	STRIP DIMS
NT06-0400-L06	RG142, 223, 400	N28
NT06-0058-L06	RG58, URM43	N28
NT06-0059-L06	RG59, 62, URM70	N28

Strip Dimensions - see Illustration S.2
N28: A = 5.0mm B = 2.0mm C = 3.0mm

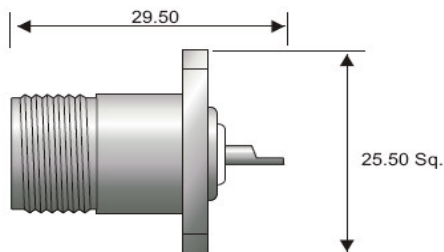
Panel Jack Solder Receptacle



PART NUMBER	DETAILS
NT62-X001-N06	Nickel plated, 50 ohms



Flange Jack Solder Receptacle



PART NUMBER	DETAILS
NT06-X001-N06	Nickel plated, 50 ohms

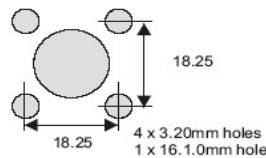


Illustration S.2

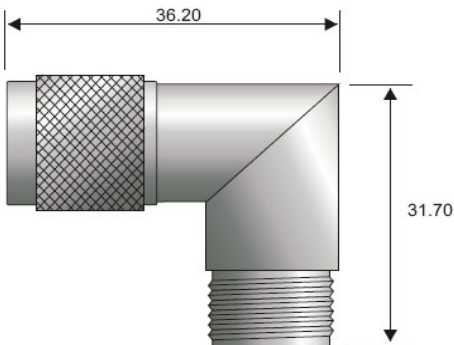


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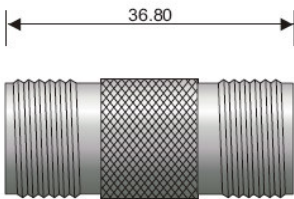
N Type Adaptors 33

Right Angle Plug to Jack



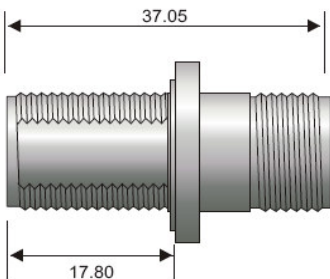
PART NUMBER	DETAILS
NT17-10-A06	Nickel Plated, 50 ohms

Jack to Jack

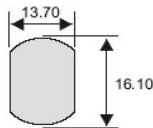


PART NUMBER	DETAILS
NT10-10-A06	Nickel Plated, 50 ohms

Bulkhead Jack to Jack

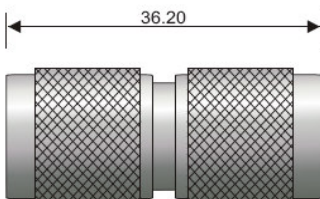


PART NUMBER	DETAILS
NT02-10-A06	Nickel Plated, 50 ohms, DC to 3GHz
NT02-10-A06-11	Nickel Plated, 50 ohms, DC to 10GHz



Max. Panel thickness 4.00mm

Plug to Plug



PART NUMBER	DETAILS
NT15-15-A06	Nickel Plated, 50 ohms

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