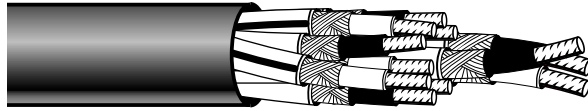


CABLED SHIELDED TRIOS



Military & UL Grade

- Single Conductors (NTT Series)
- RFI Shielded Cables

Meets U.L. Style 2343 or 2344 for Computer Use

National Wire & Cable Corp. manufactures a complete line of flexible signal and control cables in which each trio is individually shielded and plastic-jacketed. Conforming to MIL-C-27072, these cables provide extended temperature, rough usage, military shielding, excellent flexibility. Provides a minimum of crosstalk between signal channels, plus complete isolation between shields. Excellent for analog signals. All jackets are moisture proof and suitable for use in duct, conduit, aerial, or burial installations.

Conductors are stranded tinned copper with .010" vinyl primary insulation plus .004" nylon insulation over the vinyl per MIL-DTL-16878/17. Insulation for 600 Volts working rating at 105°C. Color-coding: Trios-Black, White, and Red. All conductors are 19 strand.

Shielding is tinned copper braid with 85-90% coverage per MIL-C-7078, and shield angle below 40 degrees for easy pushback.

Jackets over shields are extruded 105°C white polyvinylchloride plastic per MIL-I-631, Type F. Each subcable is individually identified by color code per MIL-STD-681, starting with color #9. Refer to the Table in the National Wire Cable Designers Guide, page 7-12.

All sub-components are planetary cabled and contra-helically laid with a mylar tape serve over the cable bundle. The overall sheath is abrasion-resistant black 105°C vinyl thermoplastic per MIL-I-631, Type F.

Optional overall shielding of cabled bundle is 85-95% minimum coverage of tinned copper braid applied per MIL-C-7078 over the tape serve under sheath.

TECHNICAL DATA (ALL CABLES)	
Insulation Breakdown Voltage:	Greater than 5000 volts AC RMS, 60 Hz.
Insulation Leakage Resistance:	200 Megohms/1000 ft. at 500 VDC from any conductor to all else in cable.
Sheath Leakage Resistance:	10 Megohms/1000 ft. min. at 500 VDC from overall shield through sheath to saline both at 25°C.
Usable Temperature Range:	Suitable for continuous use from +105°C to -55°C when stationary. Flexing service: +105°C to -25°C.
Bending Characteristics:	All cables are suitable for flexing to a circle diameter of 6 cable diameters from +105°C to -55°C. Recommended flex diameter should be greater than 20 cable diameters for flexing at -40°C. For continuous flexing applications consult factory.
Crosstalk:	Common-mode, adjacent trios: Worst case, -50 db @ 1 Mhz; totaling to -100 db below 100 kHz. (Ref. MIL-C-23437 for test method.) For 100 ft. test length.

Capacitance (pf/d/ft.):		
AWG	WIRE-WIRE	WIRE-SHIELD
16	60	108
18	53	96
20	44	80
22	38	68
24	33	59
26	28	51



TO ORDER RoHS COMPLIANT PRODUCTS:

please add the letter "R" into the second position of the Part No.

EXAMPLE: Non-RoHS Part No NK1234 EXAMPLE: RoHS Part No NRK1234

NTT SERIES WITHOUT OVERALL SHIELD - 26, 24, 22, 20, 18 and 16 AWG											NTT SERIES WITH OVERALL SHIELD - 26, 24, 22, 20, 18 and 16 AWG										
Part No.	No. of Trios	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight		Part No.	No. of Trios	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight	
			Inches	MM	Inches	MM	Inches	MM	lbs per 1000 ft	KG/KM				Inches	MM	Inches	MM	Inches	MM	lbs per 1000 ft	KG/KM
NTT-726J	7	26	.153	3.8	.062	1.6	.587	14.91	173	257	NTT-726SJ	7	26	.153	3.8	.062	1.6	.612	15.54	220	327
NTT-1226J	12	26	.153	3.8	.062	1.6	.764	19.41	275	409	NTT-1226SJ	12	26	.153	3.8	.062	1.6	.790	20.07	338	503
NTT-1926J	19	26	.153	3.8	.085	2.1	.939	23.9	442	658	NTT-1926SJ	19	26	.153	3.8	.085	2.1	.964	24.5	519	772
NTT-2726J	27	26	.153	3.8	.085	2.1	1.116	28.3	599	891	NTT-2726SJ	27	26	.153	3.8	.085	2.1	1.142	29.0	693	1031
NTT-3726J	37	26	.153	3.8	.085	2.1	1.245	31.6	781	1162	NTT-3726SJ	37	26	.153	3.8	.085	2.1	1.270	32.3	887	1320
NTT-4826J	48	26	.153	3.8	.085	2.1	1.413	35.9	985	1466	NTT-4826SJ	48	26	.153	3.8	.085	2.1	1.439	36.6	1107	1647
NTT-724J	7	24	.164	4.1	.062	1.6	.620	15.75	198	295	NTT-724SJ	7	24	.164	4.1	.062	1.6	.645	16.38	248	369
NTT-1224J	12	24	.164	4.1	.085	2.1	.810	20.57	316	470	NTT-1224SJ	12	24	.164	4.1	.085	2.1	.881	22.38	420	625
NTT-1924J	19	24	.164	4.1	.085	2.1	.994	25.2	507	754	NTT-1924SJ	19	24	.164	4.1	.085	2.1	1.012	25.7	589	876
NTT-2724J	27	24	.164	4.1	.085	2.1	1.184	30.1	690	1027	NTT-2724SJ	27	24	.164	4.1	.085	2.1	1.209	30.7	790	1176
NTT-3724J	37	24	.164	4.1	.085	2.1	1.322	33.6	903	1344	NTT-3724SJ	37	24	.164	4.1	.085	2.1	1.347	34.2	1017	1513
NTT-722J	7	22	.177	4.5	.062	1.6	.659	16.74	235	350	NTT-722SJ	7	22	.177	4.5	.062	1.6	.684	17.37	289	430
NTT-1222J	12	22	.177	4.5	.085	2.1	.910	23.1	416	619	NTT-1222SJ	12	22	.177	4.5	.085	2.1	.936	23.8	490	729
NTT-1922J	19	22	.177	4.5	.085	2.1	1.059	26.9	606	902	NTT-1922SJ	19	22	.177	4.5	.085	2.1	1.004	25.5	694	1033
NTT-2722J	27	22	.177	4.5	.085	2.1	1.264	32.1	829	1234	NTT-2722SJ	27	22	.177	4.5	.085	2.1	1.290	32.8	937	1394
NTT-3722J	37	22	.177	4.5	.085	2.1	1.413	35.9	1090	1622	NTT-3722SJ	37	22	.177	4.5	.085	2.1	1.438	36.5	1212	1803
NTT-720J	7	20	.195	4.9	.062	1.6	.713	18.11	294	437	NTT-720SJ	7	20	.195	4.9	.062	1.6	.738	18.75	353	525
NTT-1220J	12	20	.195	4.9	.085	2.1	.985	25.0	517	769	NTT-1220SJ	12	20	.195	4.9	.085	2.1	1.010	25.7	599	891
NTT-1920J	19	20	.195	4.9	.085	2.1	1.149	29.2	762	1134	NTT-1920SJ	19	20	.195	4.9	.085	2.1	1.174	29.8	859	1278
NTT-2720J	27	20	.195	4.9	.085	2.1	1.375	34.9	1049	1561	NTT-2720SJ	27	20	.195	4.9	.085	2.1	1.400	35.6	1167	1736
NTT-718J	7	18	.213	5.4	.062	1.6	.767	19.48	366	545	NTT-718SJ	7	18	.213	5.4	.062	1.6	.792	20.12	430	640
NTT-1218J	12	18	.213	5.4	.085	2.1	1.060	26.9	642	955	NTT-1218SJ	12	18	.213	5.4	.085	2.1	1.085	27.6	730	1086
NTT-1918J	19	18	.213	5.4	.085	2.1	1.239	31.5	955	1421	NTT-1918SJ	19	18	.213	5.4	.085	2.1	1.264	32.1	1060	1577
NTT-716J	7	16	.242	6.1	.085	2.1	.900	22.9	471	701	NTT-716SJ	7	16	.242	6.1	.085	2.1	.925	23.5	544	809
NTT-1216J	12	16	.242	6.1	.085	2.1	1.181	30.0	759	1129	NTT-1216SJ	12	16	.242	6.1	.085	2.1	1.206	30.6	859	1278
NTT-1916J	19	16	.242	6.1	.085	2.1	1.384	35.2	1133	1686	NTT-1916SJ	19	16	.242	6.1	.085	2.1	1.409	35.8	1253	1864