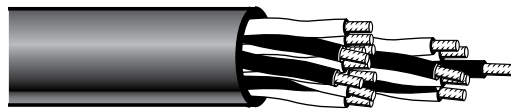


CABLED SINGLE CONDUCTORS



NX SERIES

- Single Conductors
- Mil Spec, U.L. AWM

Recognized Style 2343 and CSA Certified AWM II A/B*

National Wire & Cable Corporation manufactures a complete line of MINIATURE low voltage signal and control cable. Available as cabled pairs or cabled singles, with optional overall shield. Conductors are stranded tinned copper with .010" wall of vinyl primary insulation for use up to 105°C. per MIL-W-16878/1.

Insulated for 600 volts working voltage. (Also meets U.L. AWM Type 1061; 300 volt, 80°C.) All are coded using 10 standard colors plus stripes on white per MIL-STD-681. View Color Table in the National Wire Cable Designers Guide, page 7-13.

All conductors are planetary cabled and contra-helicly laid for optimum flexibility, with a Mylar tape barrier undershields. Shielded cables have a tinned copper braid overall, of 85-90% coverage per MIL-C-7078; and braid angles below 40° for easy pushback.

The outer jacket is black abrasion-resistant 105°C. vinyl meeting MIL-I-631 Type F. All materials are self-extinguishing and fungus-resistant. All items are U.L. STYLE 2343 COMPUTER CABLE; rated 80°C (Higher temp. ratings apply for any non-U.L. service). Meets E.I.A. Standard RS-232 for 18-24 gauges.

*CSA certification furnished only when requested.
Standard Putups: 500 and 1000 ft. No-deposit reels.

TECHNICAL DATA (ALL CABLES)	
Insulation Breakdown Voltage:	Greater than 3400 volts AC RMS, 60cps.
Capacitance:	Nominal capacitance from a wire to all else in a cable ranges from 45 to 70 pf/ft at 1 kc, depending on gauge and position.
Insulation Leakage:	200 megohms/1000 feet minimum @ 500 VDC from conductor to all else in cable.
Sheath Leakage:	10 megohms/1000 feet minimum @ 500 VDC from shield or conductor group through sheath to ground.
Temperature Range:	Suitable for continuous use from -40°C to +105°C. (U.L. Service limited to +80°C)
Bending Characteristics:	All cables are suitable for flexing to a circle diameter of 6 cable diameters from +105°C to -20°C. Recommended flex diameter should be greater than 20 cable diameters for flexing at -40°C. For continuous flexing applications consult the factory.

MULTI-CONDUCTOR STOCK CABLED SINGLES Conductor sizes 24, 22 are 7 strand. All others are 19 strand.

NX SERIES UNSHIELDED - 24, 22 and 20 AWG										
Part No.	No. Cond	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight	
			Inches	MM	Inches	MM	Inches	MM	lbs per 1000 ft	KG/KM
NX-524J	5	24	.044	1.1	.062	1.6	.247	6.3	31	47
NX-724J	7	24	.044	1.1	.062	1.6	.260	6.6	37	55
NX-1224J	12	24	.044	1.1	.062	1.6	.311	7.9	53	79
NX-1524J	15	24	.044	1.1	.062	1.6	.335	8.5	62	92
NX-1924J	19	24	.044	1.1	.062	1.6	.348	8.8	72	106
NX-2724J	27	24	.044	1.1	.062	1.6	.399	10.1	94	139
NX-3724J	37	24	.044	1.1	.062	1.6	.436	11.1	118	176
NX-4824J	48	24	.044	1.1	.062	1.6	.484	12.3	146	217
NX-6024J	60	24	.044	1.1	.062	1.6	.524	13.3	175	261
NX-522J	5	22	.050	1.3	.062	1.6	.263	6.7	38	56
NX-722J	7	22	.050	1.3	.062	1.6	.278	7.1	45	67
NX-1222J	12	22	.050	1.3	.062	1.6	.336	8.5	67	99
NX-1522J	15	22	.050	1.3	.062	1.6	.363	9.2	79	117
NX-1922J	19	22	.050	1.3	.062	1.6	.378	9.6	92	137
NX-2722J	27	22	.050	1.3	.062	1.6	.436	11.1	122	182
NX-3722J	37	22	.050	1.3	.062	1.6	.478	12.1	156	233
NX-4822J	48	22	.050	1.3	.062	1.6	.533	13.5	195	290
NX-6022J	60	22	.050	1.3	.062	1.6	.578	14.7	235	350
NX-520J	5	20	.062	1.5	.062	1.6	.285	7.2	49	73
NX-720J	7	20	.062	1.5	.062	1.6	.302	7.7	61	90
NX-1220J	12	20	.062	1.5	.062	1.6	.369	9.4	92	137
NX-1520J	15	20	.062	1.5	.062	1.6	.401	10.2	110	163
NX-1920J	19	20	.062	1.5	.062	1.6	.418	10.6	131	194
NX-2720J	27	20	.062	1.5	.062	1.6	.485	12.3	176	262
NX-3720J	37	20	.062	1.5	.062	1.6	.534	13.6	229	341
NX-4820J	48	20	.062	1.5	.062	1.6	.598	15.2	288	429
NX-6020J	60	20	.062	1.5	.062	1.6	.650	16.5	351	522

NX SERIES OVERALL SHIELDED - 24, 22 and 20 AWG										
Part No.	No. Cond	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight	
			Inches	MM	Inches	MM	Inches	MM	lbs per 1000 ft	KG/KM
NX-524SJ	5	24	.044	1.1	.062	1.6	.267	6.8	42	63
NX-724SJ	7	24	.044	1.1	.062	1.6	.280	7.1	49	72
NX-1224SJ	12	24	.044	1.1	.062	1.6	.331	8.4	63	101
NX-1524SJ	15	24	.044	1.1	.062	1.6	.355	9.0	79	117
NX-1924SJ	19	24	.044	1.1	.062	1.6	.368	9.3	89	133
NX-2724SJ	27	24	.044	1.1	.062	1.6	.419	10.6	115	171
NX-3724SJ	37	24	.044	1.1	.062	1.6	.461	11.7	151	224
NX-4824SJ	48	24	.044	1.1	.062	1.6	.510	12.9	183	273
NX-6024SJ	60	24	.044	1.1	.062	1.6	.549	13.9	216	321
NX-522SJ	5	22	.050	1.3	.062	1.6	.283	7.2	50	74
NX-722SJ	7	22	.050	1.3	.062	1.6	.298	7.6	58	87
NX-1222SJ	12	22	.050	1.3	.062	1.6	.356	9.0	83	124
NX-1522SJ	15	22	.050	1.3	.062	1.6	.383	9.7	97	145
NX-1922SJ	19	22	.050	1.3	.062	1.6	.398	10.1	112	166
NX-2722SJ	27	22	.050	1.3	.062	1.6	.461	11.7	155	230
NX-3722SJ	37	22	.050	1.3	.062	1.6	.503	12.8	193	287
NX-4822SJ	48	22	.050	1.3	.062	1.6	.558	14.2	237	352
NX-6022SJ	60	22	.050	1.3	.062	1.6	.603	15.3	281	419
NX-520SJ	5	20	.058	1.5	.062	1.6	.305	7.7	62	93
NX-720SJ	7	20	.058	1.5	.062	1.6	.322	8.2	75	112
NX-1220SJ	12	20	.058	1.5	.062	1.6	.389	9.9	111	165
NX-1520SJ	15	20	.058	1.5	.062	1.6	.421	10.7	131	195
NX-1920SJ	19	20	.058	1.5	.062	1.6	.438	11.1	153	228
NX-2720SJ	27	20	.058	1.5	.062	1.6	.510	13.0	213	317
NX-3720SJ	37	20	.058	1.5	.062	1.6	.559	14.2	271	403
NX-4820SJ	48	20	.058	1.5	.062	1.6	.623	15.8	336	500
NX-6020SJ	60	20	.058	1.5	.062	1.6	.675	17.2	404	601

CABLED SINGLE CONDUCTORS - NX Series



MULTI-CONDUCTOR STOCK CABLED SINGLES Conductor sizes 24, 22 are 7 strand. All others are 19 strand.

RoHS COMPLIANT PRODUCTS:

all RoHS products have the letter "R" written into the second position of the Part No.

NRX SERIES UNSHIELDED - 24, 22 and 20 AWG											NRX SERIES OVERALL SHIELDED - 24, 22 and 20 AWG										
Part No.	No. Cond	Cond AWG	Cond. Diam.		Jacket Wall		Nom. Diam.		Weight		Part No.	No. Cond	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
NRX-524J	5	24	.044	1.1	.062	1.6	.247	6.3	31	47	NRX-524SJ	5	24	.044	1.1	.062	1.6	.267	6.8	42	63
NRX-724J	7	24	.044	1.1	.062	1.6	.260	6.6	37	55	NRX-724SJ	7	24	.044	1.1	.062	1.6	.280	7.1	49	72
NRX-1224J	12	24	.044	1.1	.062	1.6	.311	7.9	53	79	NRX-1224SJ	12	24	.044	1.1	.062	1.6	.331	8.4	63	101
NRX-1524J	15	24	.044	1.1	.062	1.6	.335	8.5	62	92	NRX-1524SJ	15	24	.044	1.1	.062	1.6	.355	9.0	79	117
NRX-1924J	19	24	.044	1.1	.062	1.6	.348	8.8	72	106	NRX-1924SJ	19	24	.044	1.1	.062	1.6	.368	9.3	89	133
NRX-2724J	27	24	.044	1.1	.062	1.6	.399	10.1	94	139	NRX-2724SJ	27	24	.044	1.1	.062	1.6	.419	10.6	115	171
NRX-3724J	37	24	.044	1.1	.062	1.6	.436	11.1	118	176	NRX-3724SJ	37	24	.044	1.1	.062	1.6	.461	11.7	151	224
NRX-4824J	48	24	.044	1.1	.062	1.6	.484	12.3	146	217	NRX-4824SJ	48	24	.044	1.1	.062	1.6	.510	12.9	183	273
NRX-6024J	60	24	.044	1.1	.062	1.6	.524	13.3	175	261	NRX-6024SJ	60	24	.044	1.1	.062	1.6	.549	13.9	216	321
NRX-522J	5	22	.050	1.3	.062	1.6	.263	6.7	38	56	NRX-522SJ	5	22	.050	1.3	.062	1.6	.283	7.2	50	74
NRX-722J	7	22	.050	1.3	.062	1.6	.278	7.1	45	67	NRX-722SJ	7	22	.050	1.3	.062	1.6	.298	7.6	58	87
NRX-1222J	12	22	.050	1.3	.062	1.6	.336	8.5	67	99	NRX-1222SJ	12	22	.050	1.3	.062	1.6	.356	9.0	83	124
NRX-1522J	15	22	.050	1.3	.062	1.6	.363	9.2	79	117	NRX-1522SJ	15	22	.050	1.3	.062	1.6	.383	9.7	97	145
NRX-1922J	19	22	.050	1.3	.062	1.6	.378	9.6	92	137	NRX-1922SJ	19	22	.050	1.3	.062	1.6	.398	10.1	112	166
NRX-2722J	27	22	.050	1.3	.062	1.6	.436	11.1	122	182	NRX-2722SJ	27	22	.050	1.3	.062	1.6	.461	11.7	155	230
NRX-3722J	37	22	.050	1.3	.062	1.6	.478	12.1	156	233	NRX-3722SJ	37	22	.050	1.3	.062	1.6	.503	12.8	193	287
NRX-4822J	48	22	.050	1.3	.062	1.6	.533	13.5	195	290	NRX-4822SJ	48	22	.050	1.3	.062	1.6	.558	14.2	237	352
NRX-6022J	60	22	.050	1.3	.062	1.6	.578	14.7	235	350	NRX-6022SJ	60	22	.050	1.3	.062	1.6	.603	15.3	281	419
NRX-520J	5	20	.062	1.5	.062	1.6	.285	7.2	49	73	NRX-520SJ	5	20	.058	1.5	.062	1.6	.305	7.7	62	93
NRX-720J	7	20	.062	1.5	.062	1.6	.302	7.7	61	90	NRX-720SJ	7	20	.058	1.5	.062	1.6	.322	8.2	75	112
NRX-1220J	12	20	.062	1.5	.062	1.6	.369	9.4	92	137	NRX-1220SJ	12	20	.058	1.5	.062	1.6	.389	9.9	111	165
NRX-1520J	15	20	.062	1.5	.062	1.6	.401	10.2	110	163	NRX-1520SJ	15	20	.058	1.5	.062	1.6	.421	10.7	131	195
NRX-1920J	19	20	.062	1.5	.062	1.6	.418	10.6	131	194	NRX-1920SJ	19	20	.058	1.5	.062	1.6	.438	11.1	153	228
NRX-2720J	27	20	.062	1.5	.062	1.6	.485	12.3	176	262	NRX-2720SJ	27	20	.058	1.5	.062	1.6	.510	13.0	213	317
NRX-3720J	37	20	.062	1.5	.062	1.6	.534	13.6	229	341	NRX-3720SJ	37	20	.058	1.5	.062	1.6	.559	14.2	271	403
NRX-4820J	48	20	.062	1.5	.062	1.6	.598	15.2	288	429	NRX-4820SJ	48	20	.058	1.5	.062	1.6	.623	15.8	336	500
NRX-6020J	60	20	.062	1.5	.062	1.6	.650	16.5	351	522	NRX-6020SJ	60	20	.058	1.5	.062	1.6	.675	17.2	404	601