

# CABLED SINGLE CONDUCTORS



## NQ SERIES

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

Recognized Style 2464 and CSA Certified AWM II A/B

### GRAY PVC JACKET

National Wire & Cable Corporation manufactures a complete line of highly flexible micro-miniature low-voltage instrument control cable. These are available as cabled pairs or singles, with optional overall shield of either foil with drain or a braided shield.

Conductors are stranded tinned copper with .010" wall of tough extruded polyvinyl chloride primary insulation, rated for 300 volt use at +80°C under U.L. style 1061\*. All are color coded using ten standard colors plus white with stripes per MIL-STD-881. View Color Table in the National Wire Cable Designers Guide, page 7-13.

Conductors are planetary cabled and helically laid for optimum flexibility, with a barrier under braids. Shielded cables have a tinned copper braid of 90% coverage per MIL-C-7078, with braid angles below 40° for easy pushback; or have 100% coverage foil shield in intimate contact with a drain wire for easy termination.

The outer jacket is highly flexible abrasion-resistant gray polyvinyl chloride thermoplastic, meeting the requirements of U.L. style 2464. The jacket material is military rated for 105°C; meets MIL-I-631, Type F. Meets EIA for RS-232, 18-24 gauges.

Military certification furnished only when requested. All materials are flame retardant and fungus resistant. Standard Putups: 500 and 1000 ft. No-deposit reels. For shorter quantities or specific lengths, consult factory.

\*Wire also meets MIL-W-16878, rated 600 volts, +105°C.

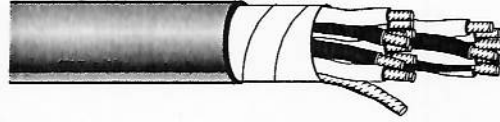
TECHNICAL DATA (ALL CABLES)	
Insulation Breakdown Voltage:	Greater than 3400 volts AC RMS, 60cps.
Capacitance:	Nominal capacitance from a wire to all else in a cable ranges from 25 to 45 pf/ft at 1 kc, depending on gauge and position.
Insulation Leakage:	200 megohms/1000 feet minimum @ 500 VDC from conductor 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:	U.L. rating: +80°C per U.L. style 2464. Military: Continuous use from -40°C to +105°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.
Foil Shielded Cables:	The nominal over-all diameter of foil shielded cables will be .006" greater than the non-shielded cables of the same conductor count and wire size.
Characteristic Impedance (NQP Paired Cables)	Ranges from 150 ohms to 45 ohms, dependent on wire size (AWG), geometry and drive method. Consult our technical staff for data on specific cable types.

## MULTI-CONDUCTOR STOCK CABLED SINGLES Conductor sizes 28, 26, 24, 22 are 7 strand. All others are 19 strand.

NQ SERIES UNSHIELDED - 28 and 26 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
NQ-228J	2	28	.035	.9	.032	.8	.138	3.5	8	12
NQ-328J	3	28	.035	.9	.032	.8	.144	3.6	10	14
NQ-428J	4	28	.035	.9	.032	.8	.152	3.9	11	17
NQ-528J	5	28	.035	.9	.032	.8	.163	4.1	13	19
NQ-628J	6	28	.035	.9	.032	.8	.173	4.4	14	21
NQ-728J	7	28	.035	.9	.032	.8	.173	4.4	15	23
NQ-828J	8	28	.035	.9	.032	.8	.198	5.0	18	27
NQ-928J	9	28	.035	.9	.032	.8	.208	5.3	20	29
NQ-1028J	10	28	.035	.9	.032	.8	.208	5.3	21	31
NQ-1228J	12	28	.035	.9	.032	.8	.214	5.4	23	34
NQ-1528J	15	28	.035	.9	.032	.8	.233	5.9	27	40
NQ-1928J	19	28	.035	.9	.032	.8	.243	6.2	32	47
NQ-2728J	27	28	.035	.9	.032	.8	.284	7.2	42	63
NQ-3728J	37	28	.035	.9	.032	.8	.313	8.0	54	81
NQ-226J	2	26	.039	1.0	.032	.8	.146	3.7	10	14
NQ-326J	3	26	.039	1.0	.032	.8	.152	3.9	11	17
NQ-426J	4	26	.039	1.0	.032	.8	.162	4.1	13	20
NQ-526J	5	26	.039	1.0	.032	.8	.173	4.4	15	23
NQ-626J	6	26	.039	1.0	.032	.8	.185	4.7	18	26
NQ-726J	7	26	.039	1.0	.032	.8	.185	4.7	19	28
NQ-826J	8	26	.039	1.0	.032	.8	.212	5.4	22	33
NQ-926J	9	26	.039	1.0	.032	.8	.224	5.7	24	36
NQ-1026J	10	26	.039	1.0	.032	.8	.224	5.7	25	38
NQ-1226J	12	26	.039	1.0	.032	.8	.230	5.8	29	43
NQ-1526J	15	26	.039	1.0	.032	.8	.251	6.4	34	51
NQ-1926J	19	26	.039	1.0	.032	.8	.263	6.7	40	60
NQ-2726J	27	26	.039	1.0	.032	.8	.308	7.8	54	81
NQ-3726J	37	26	.039	1.0	.032	.8	.341	8.7	71	105
NQ-4826J	48	26	.039	1.0	.032	.8	.039	9.8	89	132

NQ SERIES OVERALL BRAIDED SHIELD - 28 and 26 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
NQ-228SJ	2	28	.035	.9	.032	.8	.158	4.0	15	22
NQ-328SJ	3	28	.035	.9	.032	.8	.164	4.2	16	24
NQ-428SJ	4	28	.035	.9	.032	.8	.172	4.4	18	27
NQ-528SJ	5	28	.035	.9	.032	.8	.183	4.6	21	31
NQ-628SJ	6	28	.035	.9	.032	.8	.193	4.9	23	34
NQ-728SJ	7	28	.035	.9	.032	.8	.193	4.9	24	36
NQ-828SJ	8	28	.035	.9	.032	.8	.218	5.5	28	42
NQ-928SJ	9	28	.035	.9	.032	.8	.228	5.8	31	45
NQ-1028SJ	10	28	.035	.9	.032	.8	.228	5.8	32	47
NQ-1228SJ	12	28	.035	.9	.032	.8	.234	5.9	34	51
NQ-1528SJ	15	28	.035	.9	.032	.8	.253	6.4	40	59
NQ-1928SJ	19	28	.035	.9	.032	.8	.263	6.7	45	67
NQ-2728SJ	27	28	.035	.9	.032	.8	.304	7.7	50	87
NQ-3728SJ	37	28	.035	.9	.032	.8	.333	8.5	72	108
NQ-226SJ	2	26	.039	1.0	.032	.8	.166	4.2	16	24
NQ-326SJ	3	26	.039	1.0	.032	.8	.172	4.4	19	28
NQ-426SJ	4	26	.039	1.0	.032	.8	.182	4.6	21	32
NQ-526SJ	5	26	.039	1.0	.032	.8	.193	4.9	24	36
NQ-626SJ	6	26	.039	1.0	.032	.8	.205	5.2	27	40
NQ-726SJ	7	26	.039	1.0	.032	.8	.205	5.2	28	42
NQ-826SJ	8	26	.039	1.0	.032	.8	.232	5.9	33	50
NQ-926SJ	9	26	.039	1.0	.032	.8	.244	6.2	36	54
NQ-1026SJ	10	26	.039	1.0	.032	.8	.244	6.2	38	56
NQ-1226SJ	12	26	.039	1.0	.032	.8	.250	6.4	41	61
NQ-1526SJ	15	26	.039	1.0	.032	.8	.271	6.9	48	72
NQ-1926SJ	19	26	.039	1.0	.032	.8	.283	7.2	55	82
NQ-2726SJ	27	26	.039	1.0	.032	.8	.320	8.3	72	108
NQ-3726SJ	37	26	.039	1.0	.032	.8	.361	9.2	91	135
NQ-4826SJ	48	26	.039	1.0	.032	.8	.409	10.4	120	179

# CABLED SINGLE CONDUCTORS



## NQ SERIES

- Single Conductors
- Overall Foil Shield with Drain

U.L. and CSA certification furnished

NQ SERIES OVERALL FOIL SHIELD WITH DRAIN - 28, 26 and 24 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
NQ-228FSJ	2	28	.035	.9	.032	.8	.140	3.6	9	13
NQ-328FSJ	3	28	.035	.9	.032	.8	.146	3.7	10	15
NQ-428FSJ	4	28	.035	.9	.032	.8	.154	3.9	12	18
NQ-528FSJ	5	28	.035	.9	.032	.8	.165	4.2	13	20
NQ-628FSJ	6	28	.035	.9	.032	.8	.175	4.4	15	22
NQ-728FSJ	7	28	.035	.9	.032	.8	.175	4.4	16	24
NQ-828FSJ	8	28	.035	.9	.032	.8	.200	5.1	19	28
NQ-928FSJ	9	28	.035	.9	.032	.8	.210	5.3	20	30
NQ-1028FSJ	10	28	.035	.9	.032	.8	.210	5.3	21	32
NQ-1228FSJ	12	28	.035	.9	.032	.8	.216	5.5	24	35
NQ-1528FSJ	15	28	.035	.9	.032	.8	.235	6.0	28	41
NQ-1928FSJ	19	28	.035	.9	.032	.8	.245	6.2	32	48
NQ-2728FSJ	27	28	.035	.9	.032	.8	.286	7.3	43	64
NQ-3728FSJ	37	28	.035	.9	.032	.8	.315	8.0	55	82
NQ-226FSJ	2	26	.039	1.0	.032	.8	.148	3.8	11	16
NQ-326FSJ	3	26	.039	1.0	.032	.8	.154	3.9	12	18
NQ-426FSJ	4	26	.039	1.0	.032	.8	.164	4.2	14	21
NQ-526FSJ	5	26	.039	1.0	.032	.8	.175	4.5	16	24
NQ-626FSJ	6	26	.039	1.0	.032	.8	.187	4.7	18	28
NQ-726FSJ	7	26	.039	1.0	.032	.8	.187	4.7	20	30
NQ-826FSJ	8	26	.039	1.0	.032	.8	.214	5.4	23	34
NQ-926FSJ	9	26	.039	1.0	.032	.8	.226	5.7	25	37
NQ-1026FSJ	10	26	.039	1.0	.032	.8	.226	5.7	26	39
NQ-1226FSJ	12	26	.039	1.0	.032	.8	.232	5.9	30	44
NQ-1526FSJ	15	26	.039	1.0	.032	.8	.253	6.4	35	52
NQ-1926FSJ	19	26	.039	1.0	.032	.8	.265	6.7	41	62
NQ-2726FSJ	27	26	.039	1.0	.032	.8	.310	7.9	55	82
NQ-3726FSJ	37	26	.039	1.0	.032	.8	.343	8.7	71	106
NQ-4826FSJ	48	26	.039	1.0	.032	.8	.386	9.8	90	133
NQ-224FSJ	2	24	.044	1.1	.032	.8	.158	4.0	13	19
NQ-524FSJ	5	24	.044	1.1	.032	.8	.189	4.8	21	31
NQ-324FSJ	3	24	.044	1.1	.032	.8	.165	4.2	15	23
NQ-424FSJ	4	24	.044	1.1	.032	.8	.176	4.5	18	27
NQ-624FSJ	6	24	.044	1.1	.032	.8	.202	5.1	24	35
NQ-724FSJ	7	24	.044	1.1	.032	.8	.202	5.1	26	38
NQ-824FSJ	8	24	.044	1.1	.032	.8	.233	5.9	30	44
NQ-924FSJ	9	24	.044	1.1	.032	.8	.246	6.2	32	48
NQ-1024FSJ	10	24	.044	1.1	.032	.8	.246	6.2	34	51
NQ-1224FSJ	12	24	.044	1.1	.032	.8	.253	6.4	39	58
NQ-1524FSJ	15	24	.044	1.1	.032	.8	.277	7.0	46	69
NQ-1924FSJ	19	24	.044	1.1	.032	.8	.290	7.4	55	82
NQ-2724FSJ	27	24	.044	1.1	.032	.8	.341	8.7	75	111
NQ-3724FSJ	37	24	.044	1.1	.032	.8	.378	9.6	97	145
NQ-4824FSJ	48	24	.044	1.1	.032	.8	.426	10.8	122	182
NQ-6024FSJ	60	24	.044	1.1	.032	.8	.466	11.8	149	222

NQ SERIES OVERALL FOIL SHIELD WITH DRAIN - 22, 20 and 18 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
NQ-222FSJ	2	22	.050	1.3	.032	.8	.170	4.3	16	24
NQ-322FSJ	3	22	.050	1.3	.032	.8	.178	4.5	20	29
NQ-422FSJ	4	22	.050	1.3	.032	.8	.190	4.8	23	35
NQ-522FSJ	5	22	.050	1.3	.032	.8	.205	5.2	27	40
NQ-622FSJ	6	22	.050	1.3	.032	.8	.220	5.6	31	46
NQ-722FSJ	7	22	.050	1.3	.032	.8	.220	5.6	34	50
NQ-822FSJ	8	22	.050	1.3	.032	.8	.255	6.5	39	58
NQ-922FSJ	9	22	.050	1.3	.032	.8	.270	6.9	43	63
NQ-1022FSJ	10	22	.050	1.3	.032	.8	.270	6.9	46	68
NQ-1222FSJ	12	22	.050	1.3	.032	.8	.278	7.1	52	77
NQ-1522FSJ	15	22	.050	1.3	.032	.8	.305	7.7	62	93
NQ-1922FSJ	19	22	.050	1.3	.032	.8	.320	8.1	75	111
NQ-2722FSJ	27	22	.050	1.3	.032	.8	.378	9.6	102	152
NQ-3722FSJ	37	22	.050	1.3	.032	.8	.420	10.7	134	199
NQ-4822FSJ	48	22	.050	1.3	.032	.8	.475	12.1	169	252
NQ-6022FSJ	60	22	.050	1.3	.032	.8	.520	13.2	207	308
NQ-220FSJ	2	20	.058	1.5	.032	.8	.186	4.7	22	33
NQ-320FSJ	3	20	.058	1.5	.032	.8	.195	5.0	28	41
NQ-420FSJ	4	20	.058	1.5	.032	.8	.209	5.3	33	49
NQ-520FSJ	5	20	.058	1.5	.032	.8	.227	5.8	39	58
NQ-620FSJ	6	20	.058	1.5	.032	.8	.244	6.2	45	66
NQ-720FSJ	7	20	.058	1.5	.032	.8	.244	6.2	49	73
NQ-820FSJ	8	20	.058	1.5	.032	.8	.285	7.2	56	84
NQ-920FSJ	9	20	.058	1.5	.032	.8	.302	7.7	62	93
NQ-1020FSJ	10	20	.058	1.5	.032	.8	.302	7.7	67	100
NQ-1220FSJ	12	20	.058	1.5	.032	.8	.311	7.9	77	114
NQ-1520FSJ	15	20	.058	1.5	.032	.8	.343	8.7	93	138
NQ-1920FSJ	19	20	.058	1.5	.032	.8	.360	9.1	113	168
NQ-2720FSJ	27	20	.058	1.5	.032	.8	.427	10.9	155	230
NQ-3720FSJ	37	20	.058	1.5	.032	.8	.476	12.0	205	305
NQ-218FSJ	2	18	.068	1.7	.032	.8	.206	5.2	30	45
NQ-318FSJ	3	18	.068	1.7	.032	.8	.217	5.5	38	56
NQ-418FSJ	4	18	.068	1.7	.032	.8	.245	5.9	46	68
NQ-518FSJ	5	18	.068	1.7	.032	.8	.254	6.4	54	80
NQ-618FSJ	6	18	.068	1.7	.032	.8	.274	7.0	62	92
NQ-718FSJ	7	18	.068	1.7	.032	.8	.274	7.0	69	102
NQ-818FSJ	8	18	.068	1.7	.032	.8	.322	8.2	79	117
NQ-918FSJ	9	18	.068	1.7	.032	.8	.342	8.7	87	129
NQ-1018FSJ	10	18	.068	1.7	.032	.8	.342	8.7	94	139
NQ-1218FSJ	12	18	.068	1.7	.032	.8	.353	9.0	100	161
NQ-1518FSJ	15	18	.068	1.7	.032	.8	.390	9.9	131	196
NQ-1918FSJ	19	18	.068	1.7	.032	.8	.410	10.4	150	239
NQ-2718FSJ	27	18	.068	1.7	.032	.8	.489	12.4	221	329