



NXT99

NXT99 cables offer a high-quality interconnect solution designed for demanding applications which require a screened and sheathed multicore DEF STAN 61-12 Part 18 part where low smoke and toxicity are critical such as those found in the military, aerospace, marine, and industrial sectors.

Featuring dual-layer polymer insulation and electron beam crosslinked sheathing in accordance with DEF STAN 61-12 Part 31, NXT99 cables provide excellent durability whilst retaining flexibility, EMC protection and resistance to chemicals, fuels and carbon arc tracking.



MULTI CORE



600V RATED



SCREENED



DEF-STAN 61-12 PART 18

CONSTRUCTION

Conductor	Stranded Tinned Annealed Copper
Insulation	Extruded Dual Layer Polymer
Lay Up	Multiple Cores Laid Up with Non-Hydroscopic LSZH (Low Smoke Zero Halogen) Fillers where Required
Tape	Polyester Binding & Separation Tape
Braid	Tinned Annealed Copper Wire Braid Screen (≥80% Optical Coverage)
Tape	Polyester Binding & Separation Tape
Sheath	Extruded IRL-LSZH (Irradiation Crosslinked Low Smoke Zero Halogen)

NOMINAL DIMENSIONS

Conductor Cross Sectional Area	See Table 1
Conductor Gauge	See Table 1
Diameter over Insulation	See Table 1
Outer Sheath Diameter	See Table 1

ELECTRICAL PROPERTIES

Voltage Rating	600	V RMS
	800	V DC
Max Conductor Resistance (@20°C)	See Table 1	Ω/km

PHYSICAL PROPERTIES

Operating Temperature Range	-30 to +105	°C
Service Life >40,000 Hrs Continuous	+85	°C
Minimum Bend Radius (Dynamic)	10	x Ø
Minimum Bend Radius (Static)	4	x Ø

STANDARDS & APPROVALS

Cores	DEF-STAN 61-12 Part 18
Sheath	DEF-STAN 61-12 Part 31

Table 1
Part Codes, Nominal Dimensions & Resistance

PART CODES NXT99 (X = Table 2)	CONFIGURATION No. of Cores	CONDUCTOR				INSULATION		OUTER SHEATH Nominal Ø (mm)
		Gauge (AWG)	CSA (#/mm)	Strands (#/mm)	Resistance (Ω/km @20°C)	Minimum Ø (mm)	Maximum Ø (mm)	
NXT99-1121-26-X-X	2	26	0.15	19/0.10	141.5	0.80	0.95	3.09
NXT99-1131-26-X-X	3	26	0.15	19/0.10	141.5	0.80	0.95	3.23
NXT99-1141-26-X-X	4	26	0.15	19/0.10	141.5	0.80	0.95	3.46
NXT99-1121-24-X-X	2	24	0.20	19/0.12	95.6	0.90	1.05	3.29
NXT99-1131-24-X-X	3	24	0.20	19/0.12	95.6	0.90	1.05	3.45
NXT99-1141-24-X-X	4	24	0.20	19/0.12	95.6	0.90	1.05	3.70
NXT99-1121-22-X-X	2	22	0.35	19/0.15	60.0	1.05	1.20	3.59
NXT99-1131-22-X-X	3	22	0.35	19/0.15	60.0	1.05	1.20	3.77
NXT99-1141-22-X-X	4	22	0.35	19/0.15	60.0	1.05	1.20	4.06
NXT99-1121-20-X-X	2	20	0.60	19/0.20	33.2	1.30	1.50	4.14
NXT99-1131-20-X-X	3	20	0.60	19/0.20	33.2	1.30	1.50	4.36
NXT99-1141-20-X-X	4	20	0.60	19/0.20	33.2	1.30	1.50	4.73
NXT99-1121-18-X-X	2	18	1.00	19/0.25	21.1	1.55	1.75	4.64
NXT99-1131-18-X-X	3	18	1.00	19/0.25	21.1	1.55	1.75	4.90
NXT99-1141-18-X-X	4	18	1.00	19/0.25	21.1	1.55	1.75	5.33
NXT99-1121-16-X-X	2	16	1.50	19/0.30	14.5	1.80	2.00	5.14
NXT99-1131-16-X-X	3	16	1.50	19/0.30	14.5	1.80	2.00	5.44
NXT99-1141-16-X-X	4	16	1.50	19/0.30	14.5	1.80	2.00	5.94
NXT99-1121-14-X-X	2	14	2.00	37/0.25	10.9	2.15	2.35	5.84
NXT99-1131-14-X-X	3	14	2.00	37/0.25	10.9	2.15	2.35	6.20
NXT99-1141-14-X-X	4	14	2.00	37/0.25	10.9	2.15	2.35	6.79
NXT99-1121-12-X-X	2	12	2.50	37/0.30	7.6	2.50	2.70	6.54
NXT99-1131-12-X-X	3	12	2.50	37/0.30	7.6	2.50	2.70	6.96
NXT99-1141-12-X-X	4	12	2.50	37/0.30	7.6	2.50	2.70	7.63

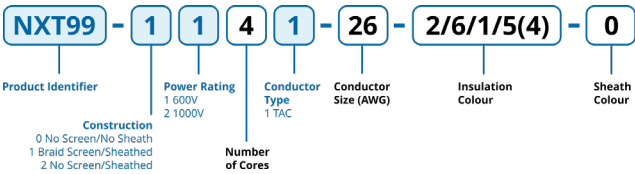
Table 2
NXT99 Part Code Modifiers for Size, Cores & Colour

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NXT99 colours are specified using the codes in this table along with the conductor size as demonstrated below.
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A stripe colour can be specified via a secondary colour code enclosed in brackets. Example: 5(4) = Green with Yellow Stripe.
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"SP" is used in place of a colour code where special instructions are specified separately, such as a unique colours.



Examples

NXT99-1131-20-2/6/9-0
20 AWG 3 Core
Red, Blue, White Cores with Black Sheath

NXT99-1151-26-2/6/1/5(4)-0
26 AWG 5 Core
Red, Blue, Brown, Green/Yellow Cores with Black Sheath

NXT99-1181-24-SP-9
24 AWG 8 Core
Special Instruction Core Colour Configuration with White Sheath

COLOUR	CODE	COLOUR	CODE
 Black	0	 Green	5
 Brown	1	 Blue	6
 Red	2	 Violet	7
 Pink	2L	 Grey	8
 Orange	3	 White	9
 Yellow	4	 Special	SP