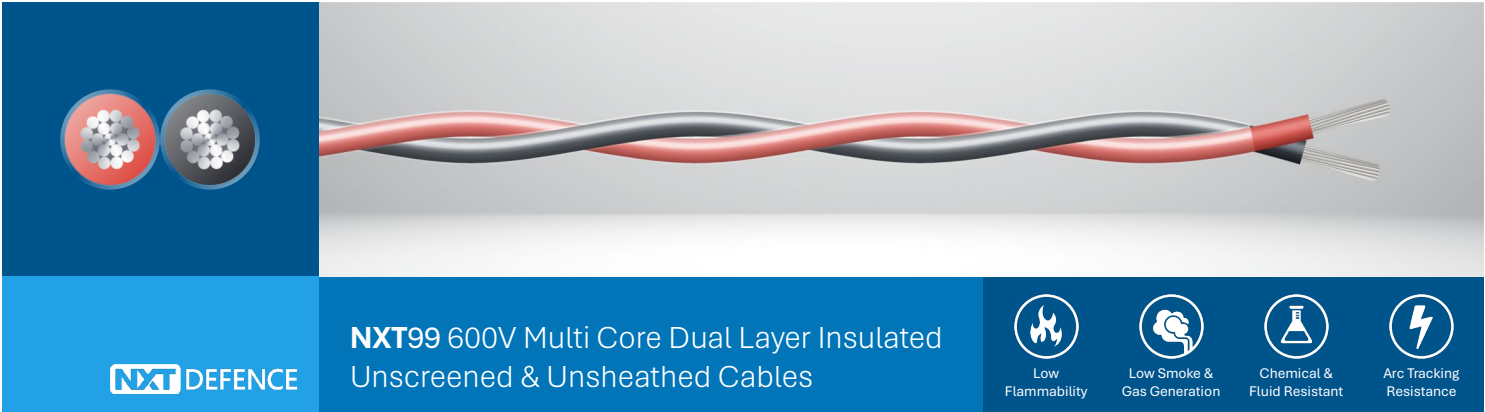




NXT99

NXT99 cables offer a high quality interconnect designed for demanding applications requiring a simple unscreened and unsheathed multicore DEF STAN 61-12 Part 18 solution for applications including military, aerospace, marine, and industrial sectors.

Featuring dual-layer polymer insulation NXT99 cables provide excellent durability whilst retaining flexibility, and resistance to chemicals, fuels and carbon arc tracking.

Such is the versatility of NXT99 cables, they can be found in both our NXT Defence and NXT Marine collections, with compliant NATO Part Numbers (NSN) also included to help specifiers.



MULTI CORE



600V RATED



UN-SCREENED



DEF-STAN 61-12 PART 18

CONSTRUCTION

Conductor	Stranded Tinned Annealed Copper
Insulation	Extruded Dual Layer Polymer
Lay Up	Multiple Cores Laid Up
Tape	A removable polyester binding tape may be used to contain larger core groupings

NOMINAL DIMENSIONS

Conductor Cross Sectional Area	See Table 1	mm ²
Conductor Gauge	See Table 1	AWG
Diameter over Insulation	See Table 1	mm
Diameter over Layup	See Table 1	mm

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	-50 to +120	°C
Minimum Bend Radius (Dynamic)	10	x Ø
Minimum Bend Radius (Static)	4	x Ø

STANDARDS & APPROVALS

Design Standard	DEF-STAN 61-12 Part 18 (Type 1)
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Table 1
Part Codes, Nominal Dimensions, Resistance & Weight

PART CODE NXT99 (X = Table 2)	CONFIGURATION No. of Cores	CONDUCTOR				INSULATION		LAYUP	
		Gauge (AWG)	CSA (#/mm)	Strands (#/mm)	Resistance (Ω/km @20°C)	Minimum Ø (mm)	Maximum Ø (mm)	Minimum Ø (mm)	Maximum Ø (mm)
NXT99-0121-26-X	2	26	0.15	19/0.10	141.5	0.80	0.95	1.60	1.90
NXT99-0131-26-X	3	26	0.15	19/0.10	141.5	0.80	0.95	1.73	2.30
NXT99-0141-26-X	4	26	0.15	19/0.10	141.5	0.80	0.95	1.94	2.30
NXT99-0121-24-X	2	24	0.20	19/0.12	91.1	0.90	1.05	1.80	2.10
NXT99-0131-24-X	3	24	0.20	19/0.12	91.1	0.90	1.05	1.94	2.27
NXT99-0141-24-X	4	24	0.20	19/0.12	91.1	0.90	1.05	2.18	2.54
NXT99-0121-22-X	2	22	0.35	19/0.15	56.0	1.05	1.20	2.10	2.40
NXT99-0131-22-X	3	22	0.35	19/0.15	56.0	1.05	1.20	2.27	2.59
NXT99-0141-22-X	4	22	0.35	19/0.15	56.0	1.05	1.20	2.54	2.90
NXT99-0121-20-X	2	20	0.60	19/0.20	31.6	1.30	1.50	2.60	3.00
NXT99-0131-20-X	3	20	0.60	19/0.20	31.6	1.30	1.50	2.81	3.24
NXT99-0141-20-X	4	20	0.60	19/0.20	31.6	1.30	1.50	3.15	3.63
NXT99-0121-18-X	2	18	1.00	19/0.25	19.74	1.55	1.75	3.10	3.50
NXT99-0131-18-X	3	18	1.00	19/0.25	19.74	1.55	1.75	3.35	3.78
NXT99-0141-18-X	4	18	1.00	19/0.25	19.74	1.55	1.75	3.75	4.24
NXT99-0121-16-X	2	16	1.50	19/0.30	14.4	1.80	2.00	3.60	4.00
NXT99-0131-16-X	3	16	1.50	19/0.30	14.4	1.80	2.00	6.03	4.32
NXT99-0141-16-X	4	16	1.50	19/0.30	14.4	1.80	2.00	4.36	4.84
NXT99-0121-14-X	2	14	2.00	37/0.25	10.5	2.15	2.35	4.30	4.70
NXT99-0131-14-X	3	14	2.00	37/0.25	10.5	2.15	2.35	4.64	5.08
NXT99-0141-14-X	4	14	2.00	37/0.25	10.5	2.15	2.35	5.20	5.69
NXT99-0121-12-X	2	12	2.50	37/0.30	7.01	2.50	2.70	5.00	5.40
NXT99-0131-12-X	3	12	2.50	37/0.30	7.01	2.50	2.70	5.40	5.83
NXT99-0141-12-X	4	12	2.50	37/0.30	7.01	2.50	2.70	6.05	6.53

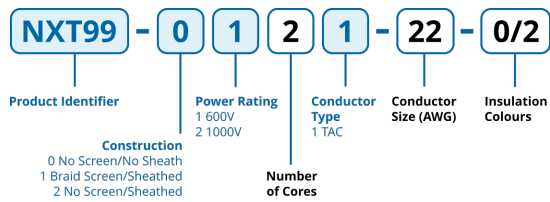
Table 2
NXT99 Part Code Modifiers for Size & Colour

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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 colour code.



- Examples**
- NXT99-0121-22-0/2

22 AWG 2 Core with Black and Red Cores
- NXT99-0131-24-2/6/9

24 AWG 3 Core with Red, Blue and White Cores
- NXT99-0121-20-SP

20 AWG 2 Core with Special Colour Instructions

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