

Designed for general purpose aircraft wiring applications.

Multicores Nickel Copper Clad Aluminium (AWG 24 to 4)
Multicores Aluminium Alloy (AWG 3 to 000)

Description

CORES

2, 3 or 4 cores ABS 0949 ADA



Standards

International prEN 3475

National ABS 0958; ABS 1354

Characteristics

Electrical characteristics

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Usage characteristics

Operating temperature, range	-65 .. 180 °C
Oil resistance	Very good resistance to aircraft fluids
Flame retardant	FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)
Arc tracking resistant	Yes
RoHS conform	Yes



Operating temp. range
-65 .. 180 °C



Oil resistance
Very good resistance to aircraft fluids



Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)



RoHS conform
Yes

ABS 1354 ADB, ADC, ADD

Dimensions and Weights

Nexans references	US AWG	Nb of cores	Finished wire					
			Colours Cores	Max. DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
					Nom.	Max.	Nom.	Max.
ABS 1354 ADB	24	2	1 Red 1 Blue	149.4	1.78	1.92	3.47	3.61
ABS 1354 ADB	22	2		92.9	2.04	2.20	4.83	5.15
ABS 1354 ADB	20	2		51.1	2.58	2.68	7.24	7.52
ABS 1354 ADB	18	2		34.2	3.08	3.22	10.49	11.23
ABS 1354 ADB	16	2		23.7	3.70	3.84	15.03	15.97
ABS 1354 ADB	14	2		16	4.30	4.48	20.22	22.54
ABS 1354 ADB	12	2		11.2	5.12	5.40	28.80	31.93
ABS 1354 ADB	10	2		6	6.34	6.66	45.29	49.48
ABS 1354 ADB	8	2		3.91	8.58	8.80	77.4	80.34
ABS 1354 ADB	6	2		2.37	11.0	11.40	127.54	131.22
ABS 1354 ADB	4	2		1.55	13.42	14.80	190.74	198.38
ABS 1354 ADB	3	2		1.22	15.02	15.48	186.17	193.64
ABS 1354 ADB	2	2		0.97	16.64	17.14	230.72	239.99
ABS 1354 ADB	1	2		0.77	18.44	19.00	283.91	295.61
ABS 1354 ADB	0	2		0.62	21.22	21.86	358.65	372.86
ABS 1354 ADB	00	2		0.44	24.02	24.74	454.84	473.80
ABS 1354 ADB	000	2		0.37	26.62	27.42	545.84	568.56
ABS 1354 ADC	24	3	1 Red 1 Blue 1 Yellow	149.4	1.92	2.06	5.20	5.41
ABS 1354 ADC	22	3		92.9	2.20	2.37	7.25	7.73
ABS 1354 ADC	20	3		51.1	2.78	2.88	10.86	11.28
ABS 1354 ADC	18	3		34.2	3.32	3.46	15.73	16.84
ABS 1354 ADC	16	3		23.7	3.99	4.13	22.55	23.95
ABS 1354 ADC	14	3		16	4.63	4.82	30.32	33.80
ABS 1354 ADC	12	3		11.2	5.52	5.81	43.21	47.90
ABS 1354 ADC	10	3		6	6.83	7.16	67.93	74.22
ABS 1354 ADC	8	3		3.91	9.24	9.46	116.10	120.51
ABS 1354 ADC	6	3		2.37	11.85	12.26	191.31	196.83
ABS 1354 ADC	4	3		1.55	14.46	15.91	286.11	297.57
ABS 1354 ADC	3	3		1.22	16.18	16.64	279.26	290.46
ABS 1354 ADC	2	3		0.97	17.93	18.43	346.09	359.99
ABS 1354 ADC	1	3		0.77	19.87	20.43	425.86	443.42
ABS 1354 ADC	0	3		0.62	22.86	23.50	537.98	559.29
ABS 1354 ADC	00	3		0.44	25.88	26.60	682.26	710.70
ABS 1354 ADC	000	3		0.37	28.68	29.48	818.76	852.84



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RoHS conform
Yes

				149.4	2.15	2.30	6.94	7.21
ABS 1354 ADD	24	4	1 Red 1 Blue 1 Yellow 1 Green					
ABS 1354 ADD	22	4		92.9	2.46	2.64	9.67	10.30
ABS 1354 ADD	20	4		51.1	3.11	3.22	14.48	15.04
ABS 1354 ADD	18	4		34.2	3.72	3.86	20.97	22.45
ABS 1354 ADD	16	4		23.7	4.47	4.61	30.07	31.93
ABS 1354 ADD	14	4		16	5.19	5.38	40.43	45.07
ABS 1354 ADD	12	4		11.2	6.18	6.48	57.61	63.86
ABS 1354 ADD	10	4		6	7.65	7.99	90.58	98.96
ABS 1354 ADD	8	4		3.91	10.36	10.56	154.8	160.68
ABS 1354 ADD	6	4		2.37	13.28	13.68	255.08	262.44
ABS 1354 ADD	4	4		1.55	16.20	17.76	381.48	396.76
ABS 1354 ADD	3	4		1.22	18.13	18.58	372.34	387.28
ABS 1354 ADD	2	4		0.97	20.08	20.57	461.45	479.98
ABS 1354 ADD	1	4		0.77	22.26	22.80	567.81	591.22

Identification

2 cores (ADB) : Red - Blue
 3 cores (ADC) : Red - Blue - Yellow
 4 cores (ADD) : Red - Blue - Yellow - Green

Marking colour : Black

Marking text : " ADA ** FRF++ "
 ** = AWG
 FR = Country of origin (FR = France)
 F = Manufacturer (F = Nexans)
 ++ = Year of production (i.e. 14 = 2014)



Operating temp. range
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fluids



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part 1 (3)



RoHS conform
Yes

Designed for general purpose aircraft wiring applications.

Screened and Jacketed Single and Multicores
UV Laser Printable

Description

CORES

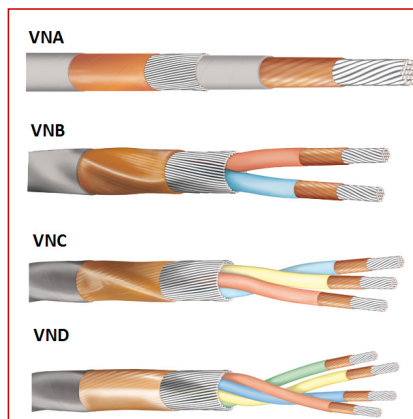
1, 2, 3 or 4 cores ABS 0949 AD

SCREEN

Nickel-plated copper spiral screen

JACKET

Polyimide tape
UV PTFE tape



Standards

International prEN 3475

National ABS 1356

Characteristics

Electrical characteristics

Operating voltage	600 V
Maximal operating frequency	0.002 MHz

Usage characteristics

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Oil resistance	Very good resistance to aircraft fluids
Flame retardant	FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)
Arc tracking resistant	Yes
RoHS conform	Yes



Operating temp. range
-65 .. 180 °C



Oil resistance
Very good resistance to aircraft fluids



Flame retardant
FAR/JAR part 25 sec 25.869 (a)(4) Appendix F part 1 (3)



RoHS conform
Yes

Dimensions and Weights

Nexans references	US AWG	Nb of cores	Screen strands nominal diameter (mm)	Finished wire						
				Colours		Max. DC Resistance at 20°C (68°F) (Ohms/km)	Diameter (mm)		Weight (g/m)	
				Cores	Jacket		Nom.	Max.	Nom.	Max.
ABS 1356 VNA	24	1	0.08	1 Grey	Grey	145	1.38	1.45	4.57	4.80
ABS 1356 VNA	22	1	0.08		Grey	90.2	1.51	1.60	5.58	5.86
ABS 1356 VNA	20	1	0.08		Grey	49.6	1.78	1.87	7.48	7.75
ABS 1356 VNA	18	1	0.08		Grey	33.2	2.03	2.11	9.73	10.40
ABS 1356 VNA	16	1	0.10		Grey	23	2.38	2.48	13.64	14.51
ABS 1356 VNA	14	1	0.10		Grey	15.5	2.68	2.79	17.10	17.96
ABS 1356 VNA	12	1	0.10		Grey	10.9	3.09	3.20	22.56	24.30
ABS 1356 VNA	10	1	0.12		Grey	5.8	3.74	3.89	33.91	36.07
ABS 1356 VNB	24	2	0.08	1 Red 1 Blue	Grey	149.4	2.27	2.40	7.84	8.15
ABS 1356 VNB	22	2	0.08		Grey	92.9	2.53	2.70	9.77	10.16
ABS 1356 VNB	20	2	0.10		Grey	51.1	3.11	3.27	14.31	14.88
ABS 1356 VNB	18	2	0.10		Grey	34.2	3.61	3.75	18.81	20.20
ABS 1356 VNB	16	2	0.12		Grey	23.7	4.27	4.44	26.26	28.10
ABS 1356 VNB	14	2	0.15		Grey	16.0	4.93	5.13	35.5	37.27
ABS 1356 VNB	12	2	0.20		Grey	11.2	5.85	6.09	51.50	55.78
ABS 1356 VNB	10	2	0.20		Grey	6.0	7.07	7.39	73.05	78.19
ABS 1356 VNC	24	3	0.10	1 Red 1 Blue 1 Yellow	Grey	149.4	2.45	2.59	11.14	11.59
ABS 1356 VNC	22	3	0.10		Grey	92.9	2.73	2.91	13.96	14.52
ABS 1356 VNC	20	3	0.12		Grey	51.1	3.35	3.52	20.34	21.15
ABS 1356 VNC	18	3	0.12		Grey	34.2	3.89	4.05	26.89	28.80
ABS 1356 VNC	16	3	0.15		Grey	23.7	4.62	4.80	38.23	40.80
ABS 1356 VNC	14	3	0.15		Grey	16.0	5.26	5.47	48.38	50.80
ABS 1356 VNC	12	3	0.20		Grey	11.2	6.25	6.50	70.04	75.81
ABS 1356 VNC	10	3	0.20		Grey	6.0	7.56	7.90	100.81	107.60
ABS 1356 VND	24	4	0.10	1 Red 1 Blue 1 Yellow 1 Green	Grey	149.4	2.68	2.84	13.74	14.29
ABS 1356 VND	22	4	0.10		Grey	92.9	2.99	3.19	17.37	18.06
ABS 1356 VND	20	4	0.12		Grey	51.1	3.68	3.86	25.38	26.39
ABS 1356 VND	18	4	0.12		Grey	34.2	4.29	4.46	33.83	36.22
ABS 1356 VND	16	4	0.15		Grey	23.7	5.10	5.30	48.14	51.30
ABS 1356 VND	14	4	0.20		Grey	16.0	5.92	6.16	66.67	70.00

Identification



Operating temp. range
-65 .. 180 °C



Oil resistance
Very good resistance to aircraft fluids



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RoHS conform
Yes

Core Identification Colours

One core (VNA) : Grey

Two cores (VNB) : Red - Blue

Three cores (VNC) : Red - Blue - Yellow

Four cores (VND) : Red - Blue - Yellow - Green

Marking text : " ADA ** FR F++ "

Jacket Identification

Colour of marking : Grey

Marking text : " XXX ** FR F++ "

Colour : Green for AWG 22, 18, 14 and 10 - Blue for AWG 24, 20, 16 and 12

XXX= Short designation (VNA, VNB, VNC, VND)

** = AWG

FR = Country of origin (FR = France)

F = Manufacturer (F = Nexans)

++= Year of production (i.e. 14 = 2014)



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