



ACT150 SCREENED AND JACKETED AIRFRAME WIRING AND INTERCONNECT CABLES

Conductor				Nominal † Diameter Over Screen mm	Finished Cable		
Size AWG	Number Diameter Of Wires mm	Nominal Diameter mm	Maximum Resistance 20°C Ω/Km		Overall Diameter		Max. Weight
					Min mm	Max mm	kg/km
single core, Type 05 - interconnect cables							
24	19/0.12	0.56	106.0	1.28	1.48	1.76	7.23
22	19/0.15	0.72	58.6	1.44	1.63	1.91	9.21
20	19/0.20	0.97	32.5	1.69	1.88	2.16	12.88
18	19/0.25	1.22	20.6	1.94	2.13	2.41	17.25
16	19/0.30	1.47	14.3	2.19	2.38	2.67	22.32
2 core, Type 05 - interconnect cables							
24	19/0.12	0.56	110.0	2.11	2.27	2.73	12.19
22	19/0.15	0.72	61.0	2.43	2.57	3.03	16.02
20	19/0.20	0.97	33.8	2.93	3.07	3.53	23.18
18	19/0.25	1.22	21.5	3.43	3.57	4.03	31.79
16	19/0.30	1.47	14.8	3.93	4.07	4.55	41.84
3 core, Type 05 - interconnect cables							
24	19/0.12	0.56	110.0	2.24	2.40	2.89	16.04
22	19/0.15	0.72	61.0	2.59	2.72	3.21	21.47
20	19/0.20	0.97	33.8	3.13	3.26	3.75	31.74
18	19/0.25	1.22	21.5	3.67	3.80	4.29	44.18
16	19/0.30	1.47	14.8	4.21	4.34	4.85	58.81
4 core, Type 05 - interconnect cables							
24	19/0.12	0.56	110.0	2.46	2.60	3.14	19.04
22	19/0.15	0.72	61.0	2.85	2.96	3.50	25.93
20	19/0.20	0.97	33.8	3.45	3.57	4.11	39.07
18	19/0.25	1.22	21.5	4.06	4.17	4.71	55.11
16	19/0.30	1.47	14.8	4.66	4.78	5.34	74.04

* Size 24 is silver plated copper alloy

† Nominal diameter of braid wire = 0.1mm

PRODUCT DESCRIPTION:

These cables with arc tracking resistance comprise one or more ACT150 single core cables assembled within a collective screen and outer jacket. They are produced to Brand-Rex specification ECM66 and approved by the Civil Aviation Authority.

PRODUCT CHARACTERISTICS:

Voltage rating: 600 volts rms at 2000Hz
Operating temperature range: -65°C to +150°C

Performance

These cables meet the requirements of BSG230 Test 42 - Resistance to arc tracking

Colours

Size 24	Pastel Blue with spiral stripe
Size 22	Pastel Green with spiral stripe
Size 20	Pastel Red with spiral stripe
Size 18	Pastel White with spiral stripe
Size 16	Pastel Blue with spiral strip

Striping

2 core cables	Pastel Red/blue
3 core cables	Pastel Red/blue/yellow
4 core cables	Pastel Red/blue/yellow/green

Jacket White

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Conductor				Nominal † Diameter Over Screen mm	Finished Cable		
Size AWG	Number Diameter Of Wires mm	Nominal Diameter mm	Maximum Resistance 20°C Ω/Km		Overall Diameter		Max. Weight kg/km
					Min mm	Max mm	
single core, Type 06 - airframe cables							
24	19/0.12	0.56	106.0	1.40	1.59	1.89	7.99
22	19/0.15	0.72	58.6	1.56	1.74	2.04	10.02
20	19/0.20	0.97	32.5	1.81	1.99	2.29	13.76
18	19/0.25	1.22	20.6	2.06	2.24	2.54	18.21
16	19/0.30	1.47	14.3	2.31	2.49	2.79	23.36
14	37/0.25	1.71	10.4	2.55	2.74	3.04	29.31
12	37/0.32	2.15	6.3	2.99	3.20	3.50	41.74
2 core, Type 06 - airframe cables							
24	19/0.12	0.56	110.0	2.35	2.49	2.99	13.57
22	19/0.15	0.72	61.0	2.67	2.79	3.29	17.50
20	19/0.20	0.97	33.8	3.17	3.29	3.79	24.81
18	19/0.25	1.22	21.5	3.67	3.79	4.29	33.58
16	19/0.30	1.47	14.8	4.17	4.29	4.79	43.79
14	37/0.25	1.71	10.8	4.65	4.79	5.29	55.62
12	37/0.32	2.15	6.55	5.53	5.71	6.21	80.52
3 core, Type 06 - airframe cables							
24	19/0.12	0.56	110.0	2.50	2.63	3.17	17.88
22	19/0.15	0.72	61.0	2.85	2.96	3.49	23.45
20	19/0.20	0.97	33.8	3.39	3.50	4.03	33.96
18	19/0.25	1.22	21.5	3.93	4.04	4.57	46.64
16	19/0.30	1.47	14.8	4.47	4.58	5.11	61.49
14	37/0.25	1.71	10.8	4.99	5.12	5.65	78.75
12	37/0.32	2.15	6.55	5.94	6.11	6.64	115.23
4 core, Type 06 - airframe cables							
24	19/0.12	0.56	110.0	2.75	2.87	3.45	21.22
22	19/0.15	0.72	61.0	3.14	3.23	3.82	28.31
20	19/0.20	0.97	33.8	3.74	3.84	4.42	41.76
18	19/0.25	1.22	21.5	4.35	4.44	5.03	58.11
16	19/0.30	1.47	14.8	4.95	5.05	5.63	77.36
14	37/0.25	1.71	10.8	5.53	5.60	6.24	99.79
12	37/0.32	2.15	6.55	6.60	6.76	7.35	147.43

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Colours

Cores (with spiral stripe on multicores)

Size 24	Pastel Blue
Size 22	Pastel Green
Size 20	Pastel Red
Size 18	Pastel White
Size 16	Pastel Blue

Striping

2 core cables	Pastel Red/blue
3 core cables	Pastel Red/blue/yellow
4 core cables	Pastel Red/blue/yellow/green
Jacket	White