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VDC CONTRACTOR FLEXIBLE LOW LOSS 50 OHM COAXIAL CABLES





VDC240 and VDC400 flexible low loss 50 Ohm coaxial cables feature a stranded centre conductor, foamed polyethylene dielectric and TPE (Thermoplastic Elastomer) outer jacket. The combination of a stranded conductor and TPE jacket results in a cable that is manageable for tactical and touring applications without compromising electrical performance.

Typical applications include antenna feeder cables for radio microphones, wireless comms and satellite applications.

Mechanical Specification

	210-240-050 VDC240	**210-400-050 VDC400**
Conductor	Bare copper	Bare copper
Stranding	7 x 0.485 mm	7 x 0.95 mm
Diameter (mm)	1.46 ± 0.02	2.74 ± 0.01
Dielectric	Foamed Polyethylene	Foamed Polyethylene
Diameter (mm)	3.81 ± 0.15	7.24 ± 0.15
Screen 1	Aluminium/polyester foil	Aluminium/polyester foil
Screen 2	Tinned copper braid, 92 ± 3 % coverage	Tinned copper braid, 90 ± 3 % coverage
Overall jacket	TPE (Thermoplastic Elastomer) Jet Black	TPE (Thermoplastic Elastomer) Jet Black
Overall diameter (mm)	6.15 ± 0.15	10.29 ± 0.25
Operating bend radius	11 x overall diameter	10 x overall diameter
Operating temperature	-40 to +85 ^{o}C	-40 to +85 ^{o}C

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Electrical Specification

	210-240-050 VDC240	210-400-050 VDC400
Impedance (Ohms)	50 ± 2	50 ± 2
Capacitance (pF/m)	78	78
Conductor resistance (Ohm/km)	< 14.2	< 3.51
Velocity Ratio	84 %	85 %
Peak Power (kW)	5.6	16
VSWR (dB/100m):		
1.0 GHz	<1.15	<1.15
1.0-2.5 GHz	<1.20	<1.20
2.5-3.5 GHz	<1.25	<1.25
3.5-6.0 GHz	<1.30	<1.30

Attenuation (at 20 ^{o}C)

	210-240-050 VDC240		210-400-050 VDC400	
Frequency (MHz)	**Attenuation (dB/100 m)**	**Power (Kw)**	**Attenuation (dB/100 m)**	**Power (Kw)**
30	5.3	1.24	2.7	2.77
50	6.8	0.96	3.5	2.14
150	11.9	0.55	6.1	1.22
220	14.4	0.45	7.4	1.00
450	20.8	0.31	10.7	0.69
900	29.8	0.22	15.4	0.48
1500	38.9	0.17	20.2	0.36
1800	42.8	0.15	22.3	0.33
2000	45.2	0.14	23.6	0.31
2500	50.9	0.13	26.6	0.28
5800	80.1	0.08	42.6	0.17

Part Numbers and Description

Part Number	Description
210-240-050	VDC240 Contractor Flexible Low Loss 50 Ohm RF Coax per metre
210-240-050-500	VDC240 Contractor Flexible Low Loss 50 Ohm RF Coax 500m reel
210-400-050	VDC400 Contractor Flexible Low Loss 50 Ohm RF Coax per metre
210-400-050-500	VDC400 Contractor Flexible Low Loss 50 Ohm RF Coax 500m reel

Standards and Compliance

RoHS 3 (EU 2015/863)		Restriction of Hazardous Substances
REACH		Registration, Evaluation, Authorisation and Restriction of Chemicals
CPR	BS EN 50575	Class Fca