

Core	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	BS kN	243.3
Material	VHS	VHS	VHS	VHS	VHS	VHS	VHS	VHS	Tot Yns	1412
Yns/Wire	7	4	13	8	4	4	2	2	kg/Yn	17.571
dTex	1670	1670	1670	1670	1670	1670	1670	1670	SG	1.41
Wire No. 1	38	59	38	52					Mod	70000
Desired Lay mm	144	165	208	236	260	300	300	300	Effy	0.575
Nearest Lay mm	144.0	165.0	207.1	235.4					M/C	1470
Width:Thk Ratio	1.0963	1.0505	1.0523	1.2004					Mat	VHS
Direction	L	R	L	R	L	R	L	R		
Seperator Type n	t	t	t	t	t	t	t	t	BS kg	24,810
Seperator Material	NW	NW	NW	NW						54582
Thickness	0.15	0.15	0.15	0.15					Pac	1.35
Wire A mm² #Gross#	0.83	0.47	1.54	0.95	0.47	0.47	0.24	0.24	Pac'	1.34
Wire A mm² #Nett#	1.12	0.64	2.08	1.28					Pac"	1.30
Layer A mm² 132.73	44.47	39.47	82.07	69.16						
Width b mm	1.11	0.82	1.48	1.24						
Thick d mm	1.01	0.78	1.41	1.03						
ID mm 13.00	13.00	15.32	17.18	20.29					2,727.27	
PCD mm	14.01	16.10	18.59	21.32					218.18	
OD mm	15.02	16.88	19.99	22.36						
OD`	15.321	17.181	20.292	22.657						
Angle °	17.00	17.04	15.75	15.89						
Torque	65	66	148	144					Sum	Torq at Ec = 1.0%
Torque Sum									2.3171	-0.879 Nm
	1	-1	1	-1	1	-1	1	-1		

Cable characteristics at a set elongation of cable.

Elong'n Ec	1.00%	Max dØ	-4.0%	E Step	0.10%	Macro Nos	
Rotation °/m		Compliance	4	° Step	0.10	ELONGM	1.20%
						RNO	11
Ø Change	-2.9%	New Diam	27.7 mm	Start Ø	28.0 mm	TORQ0	-1.02

Core	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6	Layer 7	Layer 8	Total
ID mm	12.62	14.95	16.81	19.90					
OD mm	14.65	16.51	19.60	21.96					
PCD mm	13.64	15.73	18.21	20.93					
Angle @ Load	16.41	16.51	15.29	15.46					
Wire Elongation	0.69%	0.71%	0.77%	0.77%					
Wire Stress	481	496	536	541					
Load kgf	1483	1356	3085	2621					8545.1
Torque N.m	29	31	75	74					-0.9

-ve rotation tightens RH

Construction

Construction	Rot'n degs/m	Elong' %	Torque N.m	Load kgf	Core Ø Change %	Cable Diam mm
Core Ø 13.00 mm						28.00

				(0.700)	0.10%	0.87	538		27.92	1
Layer	Nw x yns			(0.500)	0.20%	0.61	1,365		27.88	2
Layer 1	38 x 7yns	Lay	144 mm	(0.400)	0.30%	0.38	2,210		27.85	3
Layer 2	59 x 4yns	Lay	165 mm	(0.200)	0.40%	0.16	3,074		27.82	4
Layer 3	38 x 13yns	Lay	207 mm	0.100	0.50%	-0.04	3,953		27.79	5
Layer 4	52 x 8yns	Lay	235 mm	0.200	0.60%	-0.23	4,847		27.76	6
				0.400	0.70%	-0.41	5,754		27.74	7
				0.500	0.80%	-0.57	6,674		27.72	8
				0.600	0.90%	-0.73	7,604		27.70	9
				0.700	1.00%	-0.88	8,545		27.68	10
				0.900	1.10%	-1.02	9,495		27.66	11