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Single jacket ADSS -span 100m

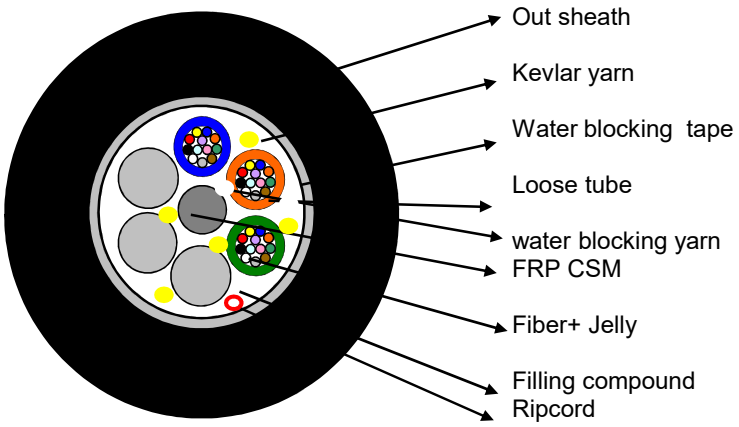
Central member FRP Outdoor Cable

CODE:	**INKT-MADSS-12H-PE-136**

Cable general design

The cable core contains single mode fibers G652D in loose tube which are stranded

FRP central strength member . Suitable for a minefield and electromagnetic interference
Suitable for Aerial,Duct, trunk power transmission system Long distance
and Local area network communication



Cable construction details

Loose tube	material	PBT
	diameter	2.0mm
Central strength member	material	FRP
	diameter	2.1mm+/-0.1mm
Moisture Barrier	Water blocking Tape	
Amoring	Dupont Kevlar 1000D*5pcs	
Jacket	PE	
Overall cable diameter	Anti -water yarn 2000D*2pcs	
Overall cable diameter	10.5mm+/-0.3mm	
Cable weight per km	120kg/km	

Tube and fiber color		
Fiber number	12	
Number of Filled element	4	
Number of tube	1	2
Tube color	Blue	Orange

Cable Mechanical characteristic

core	Cable diameter	weight
12	10.3mm+/-0.4mm	120kg/km
Temperature range	-40+70	~~
Min Bending Radius(mm)	Long term	10D
Min BendingRadius(mm)	Short term	20D
Tensile Strength(N)	Long term	1000D
Tensile Strength(N)	Short term	4000
Operationtemperature （℃）	-40+70	
Installationtemperature （℃）	-20+60	
Storage temprature （℃）	-40+70	

Fiber characteristic

Fiber style		Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition		nm	1310/1550	1310/1550	850/1300	850/1300	850/1300
attenuation		dB/km	≤	≤	≤	≤3.0/1.0	≤3.0/1.0
			0.36/0.23	0.36/0.23	3.0/1.0		
Dispresion	1550nm	Ps/(nm*km)	----	≤18	----	----	Dispresion
	1625nm	Ps/(nm*km)	----	≤22	----	----	
Bandwith	850nm	MHZ.KM	----	----	≧400	≧160	Bandwith
	1300nm	MHZ.KM	----	----	≧800	≧500	
Zero dispersion wavelength		nm	1300-1324	≧1302, ≤1322	----	----	≧ 1295, ≤1320
Zero dispresion slope		nm	≤0.092	≤0.091	----	----	----
PMD Maximum Individual Fibr			≤0.2	≤0.2	----	----	≤0.11
PMD Design Link Value		Ps(nm2*km)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λc		nm	≧ 1180, ≤1330	≧1180,≤ 1330	----	----	----
Cable sutoffwavelength λcc		nm	≤1260	≤1260	----	----	----
MFD	1310nm	um	9.2+/-0.4	9.2+/-0.4	----	----	----
	1550nm	um	10.4+/-0.8	10.4+/-0.8	----	----	----
Numerical Aperture(NA)			----	----	0.200+/-0.015	0.275+/-0.015	0.200+/-0.015
Step(mean of bidirectional measurement)		dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10
Irregularities over fiber length and point		dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10

Dicontinuity

Difference backscatter coefficient	dB/km	≤0.05	≤0.03	≤0.08	≤0.10	≤0.08
Attenuation uniformity	dB/km	≤0.01	≤0.01			
Core dimater	um			50+/-1.0	62.5+/-2.5	50+/-1.0
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Coating diameter	um	242+/-7	242+/-7	242+/-7	242+/-7	242+/-7
Coating/chaffinch concentrically error	um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding conentricity error	um	≤0.6	≤0.6	≤1.5	≤1.5	≤1.5
Curl(radius)	um	≤4	≤4	----	----	----