

1.1. OPTICAL POWER GROUND WIRE-Additional requirements

Data about offered equipment to be filled in by the bidder.

Name of Manufacturer: _____

Model: _____

Type: _____

DESCRIPTION	UNIT	REQUIRED	OFFERED
GENERAL			
Reference Standards	Yes	IEC60794-4-1, IEEE-1138 standards	
Stranding Direction – Outer Layer	Direction	Right Hand	
Number and Diameter of Alluminium Allow strands	No*mm		
Number and Diameter of Alluminium clad steel strands	No*mm		
Type tests	Yes	Yes	
Cable offered has been in operation for more than 5 years.	YES	YES. Provide Completion certificate	
Internal Fiber tube Diameter	mm		
Overall diameter	mm		
Guaranteed Ultimate Tensile Strength	kN		
Final Modulus of elasticity	N/mm ²		
Maximum Short Circuit Current Capacity	kA ² sec		
Maximum Temperature withstand under short circuit current (1sec) without optical or mechanical degradation			
Standard weight			
Weight of grease			
Maximum Tensile Strength –Long Term	Kg/mm		
Maximum Tensile Strength –Short Term	Kg/mm		
Lightning withstand as per IEC 60794-4-1			
Maximum DC Resistance at 20°C	Ohm/km		
OPTICAL CHARACTERISTICS			
Total number of Optical Fibers	Number	48	
- Number of Fibers per buffer tube (max)	Number	12	
- Fiber Type/Mode		G.655/Single Mode	
Operating wavelengths	Nm	1550, 1625	
Cladding diameter	µm/µm	1251	

Maximum Transmission Rate	Gbps	40	
Mode field Diameter at 1550nm	Mm	(8-11)±0.6	
Core concentricity error	Mm	<0.8	
Cladding Non-circularity	%	<1.0	
Cable cut off wavelength	Nm	<1450	
Macrobend loss <ul style="list-style-type: none"> - Loss - Number of turns - Maximum at 0.1dB 	mm Number dB	30 100 0.1dB	
Attenuation Coefficient <ul style="list-style-type: none"> - At 1550nm - At 1625nm 	dB/km dB/km	0.22 0.24	
PMD Coefficient	$\sqrt{}$	<0.2	

1.2. ADSS/APPROACH CABLE

Data about offered equipment to be filled in by the bidder.

Name of Manufacturer: _____

Model: _____

Type: _____

DESCRIPTION	UNIT	REQUIRED	OFFERED
GENERAL			
Reference Standards	Yes	IEC9001, ISO14001, IEC60793-1, IEC60793-2, ITU-TG.655, IEC60794-3-10. IEC60794-3-20 standards	
Double jacket outer diameter	No*mm		
Type tests	Yes	Yes	
Maximum pulling Tension	N		
Cable offered has been in operation for more than 5 years.	YES	YES. Provide Completion certificate	
Minimum bending radius	mm		
Standard weight			
Weight of grease			
OPTICAL CHARACTERISTICS			
Total number of Optical Fibers	Number	48	
Number of Fibers per buffer tube (max)	Number	12	
Fiber Type/Mode		G.655/Single Mode	
Operating wavelengths	nm	1550, 1625	
Cladding diameter	µm/µm	1251	
Maximum Transmission Rate	Gbps	40	
Mode field Diameter at 1550nm	µm	(8-11)±0.6	
Core concentricity error	µm	<0.8	
Cladding Non-circularity	%	<1.0	
Cable cut off wavelength	nm	<1450	
Macrobend loss			
- Loss	mm	30	
- Number of turns	Number	100	
Maximum at 0.1dB	dB	0.1dB	
Attenuation Coefficient			
- At 1550nm	dB/km	0.22	
At 1625nm	dB/km	0.24	

PMD Coefficient	<i>N</i>	<0.2	
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1.3. JOINT BOXES

Data about offered equipment to be filled in by the bidder.

Name of Manufacturer: _____

Model: _____

Type: _____

DESCRIPTION	UNIT	REQUIRED	OFFERED
GENERAL			
Capacity of Fibers spliced	number	48	
Entrance Ports			
- 2 way	YES	YES	
- 3 way	YES	YES	
Material		Metal and Aluminium Alloy	
Colour			
Weight			
TECHNICAL			
Fiber radius of curvature	mm	≥43	
Fiber length of the plate to stay	mm	≥1500mm	
Additional Attenuation of optical discs to stay	dB	≤0.01dB	
Maximum capacity of fiber optic			
Operational Temperature range	°C	-40°C to 80°C	
Flattening performance	N/100mm	2000N/100mm	