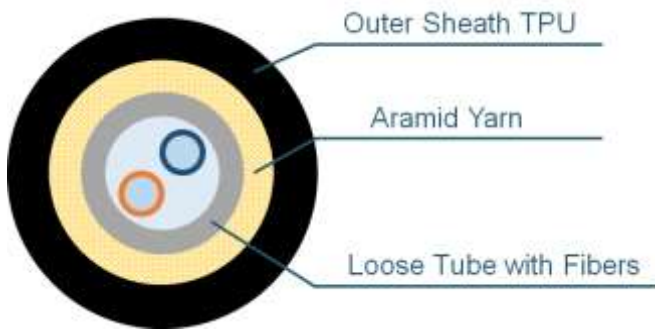


Micro ADSS drop cable for indoor and outdoor application, GJYFJU

Cable Design



Number of fibers	1 / 2 / 4 / 12F
Fiber type	G.657A2
Strength member	Aramid yarn
Cable diameter	3.0 mm
Outer sheath	UV – Resistant Thermoplastic Polyurethane (UV-TPU)

Technical data

Outer Sheath	Material	mm	UV-TPU
	Thickness	mm	0.8
	Color	mm	black
Cable Weight	1F	kg/km	7.0
	2F		7.5
Max Tensile Load	Short Term	N	800
	Long Term	N	300
Crush Resistance	Short Term	N/100mm	≥ 2200
	Long Term	N/100mm	≥ 1000
Attenuation	1310nm	dB/km	≤ 0.35
	1550nm	dB/km	≤ 0.21
Min. bending radius	Without Tension	mm	10 × Diameter
	Under Maximum Tension	mm	20 × Diameter
Temperature range	Installation	°C	-20 ~ +60
	Transport & Storage	°C	-40 ~ +70
	Operation	°C	-40 ~ +70

Optical fiber characteristics (G.657A2)

Category	Parameter	Value	
Optical Specifications	Attenuation	@1310nm	$\leq 0.35\text{dB/km}$
		@1383nm	$\leq 0.35\text{dB/km}$
		@1550nm	$\leq 0.22\text{dB/km}$
		@1625nm	$\leq 0.25\text{dB/km}$
	Attenuation discontinuity		$\leq 0.05\text{ dB}$
	Attenuation vs. Wavelength	@1285 ~ 1330nm	$\leq 0.05\text{ dB/km}$
		@1525 ~ 1575nm	$\leq 0.05\text{ dB/km}$
	Zero Dispersion Wavelength		1300 ~ 1324nm
	Zero Dispersion Slope		$\leq 0.092\text{ps}/(\text{nm}^2.\text{km})$
	Dispersion	@1310nm	$\leq 3.5\text{ps}/\text{nm.km}$
		@1550nm	$\leq 18\text{ps}/\text{nm.km}$
	Polarization Mode Dispersion (PMD)		$\leq 0.2\text{ps}/\text{km}^{1/2}$
	Cable Cutoff Wavelength (λ_{cc})		$\leq 1260\text{nm}$
	Effective Group Index of Refraction	@1310nm	1.4675
@1550nm		1.4681	
Macro bend loss (30mm radius, 100turns) 1625nm		$\leq 0.1\text{ dB}$	
Geometric Specifications	Mode Field Diameter	@1310nm	$9.2 \pm 0.6\mu\text{m}$
		@1550nm	$10.4 \pm 0.8\mu\text{m}$
	Cladding Diameter		$125 \pm 1\mu\text{m}$
	Cladding Non-Circularity		$\leq 1.0\%$
	Coating Diameter		$245 \pm 5\mu\text{m}$
	Coating/Cladding Concentricity Error		$\leq 8\mu\text{m}$
Core/Cladding Concentricity Error		$\leq 0.8\mu\text{m}$	
Mechanical Specifications	Proof Test level		$\geq 1.0\%$
	Fiber Curl Radius		$\geq 4.0\text{m}$
	Peak Coating Strip Force		1.3 ~ 8.9N

Identification

Number of fibers	1	2
Color	white	blue, orange

Test

Parameter	Test method	Test conditions	Acceptance criteria*
Tensile strength	IEC 60794-1-2-E1	Load: As per cable maximum tensile strength in table above.	Change in Attn < 0.05 dB/Km. No damage or rack to cable & no fiber break
Crush	IEC 60794-1-2-E3	Short time: 10 min Long time: 120 min Load: As per maximum crush resistance in table above Number of positions: 3 adjacent sections (ensuring one over tube and one over lay reversal)	
Impact	IEC 60794-1-2-E4	Weight: 1.5 kg Height: 1.0 m Anvil radius: 12.5 mm Impacts: 1	
Torsion	IEC 60794-1-2-E7	Sample length: 1 m Bends: 360° (1turn) clockwise and after measurement (one minute) 720° (2turns) anticlockwise (two minutes)	
Bend	IEC 60794-1-2-E11	Mandrel diameter: 180 mm Bend: 360° (1turn)	
Bend under tension	Concurrent to tensile test IEC 60794-1-2-E18	Mandrel diameter: 360 mm Bend: 360° (1turn)	
Temperature cycling	IEC 60794-1-2-F1	Sample length: 1000 m (minimum) Temperature range: From -10°C to +70°C	

Marking:

The color of marking is white, but if the remarking is necessary, the white color marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.

KST Ltd.