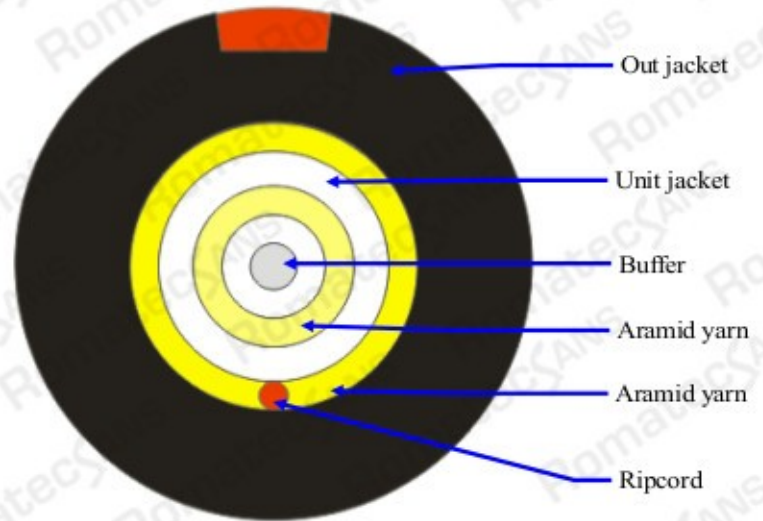


FIBER OPTIC FTTH CABLE G.657A2

Romatecsans Drop cables for aerial and building installations, designed to run from the distribution point to the subscriber.



Items		Specifications
Fibers		1 ~ 4
Nominal weight (kg/km)		28 ~ 38
Tickness	Cable	0.8 ~ 0.95
	Unit cable	0.6 ~ 0.7
Outer Jacket	Dimensions	5.0mm ± 0.3mm
	Unit cable	3.0mm ± 0.05mm
	Buffer	0.87mm ± 0.05mm
Max. tensile strength (N)	Short-term	600
	Long-term	200
Min. bending radius (mm)	Dynamic	1000
	Static	300
Material	Cable	TPU
	Unit cable	LSZH
	Buffer	LSZH
Strength members		Aramid yarn
Color		Black
Temperature range	Storage	-20 ~ 70°C
	Operation	-20 ~ 70°C
	Installation	0 ~ 50°C

HONG KONG

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TECHNICAL SPECIFICATION

Characteristics	Conditions	Specified Values	Units
Geometrical characteristics			
Cladding diameter		125.0 ± 0.7	um
Cladding non-circularity		≤ 0.7	%
Coating diameter		245 ± 5	um
Coating/cladding concentricity error		≤ 12	um
Coating non-circularity		≤ 6.0	%
Core/cladding concentricity error		≤ 0.5	um
Curl		≥ 4	m
Attenuation	1310nm	≤ 0.4	dB/km
	1383nm	≤ 0.4	
	1460nm	≤ 0.3	
	1550nm	≤ 0.3	
	1625nm	≤ 0.3	
Attenuation vs Wavelength max. A difference	1285 ~ 1330	≤ 0.03	MHz*km
	1525 ~ 1575	≤ 0.02	
Zero dispersion wavelength		1300 ~ 1324	nm
Zero dispersion slope		≤ 0.092	ps/(nm ² *km)
Polarisation mode dispersion			
PMD max. individual fibre		≤ 0.1	ps/km 1/2
PMD design link value		≤ 0.06	ps/km 1/2
Typical force		0.04	ps/km 1/2
Cable cut off wavelength		≤ 1260	nm
Mode field diameter	1310nm	8.4 ~ 9.2	um
	1550nm	9.3 ~ 10.3	um
Group index of refraction	1310nm	1.466	
	1550nm	1.467	
Environmental characteristics			
Temperature cycling	-60 ~ 85°C	≤ 0.05	dB/km
Temperature-humidity cycling	-10 ~ 85°C	≤ 0.05	dB/km
	4% to 98% RH		
Water immersion	23°C, 30 days	≤ 0.05	dB/km

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TECHNICAL SPECIFICATION

Dry heat	85°C, 30 days	≤ 0.05	dB/km
Drama heat	85°C, 85%RH	≤ 0.05	dB/km
Proof test		≥ 9	N
		≥ 1	%
		≥ 100	kpsi
10 Turns @ 15mm Radius	1550nm	≤ 0.03	dB
10 Turns @ 15mm Radius	1625nm	≤ 0.1	dB
1 Turns @ 10mm Radius	1550nm	≤ 0.1	dB
1 Turns @ 10mm Radius	1625nm	≤ 0.2	dB
1 Turns @ 7.5mm Radius	1550nm	≤ 0.2	dB
1 Turns @ 7.5mm Radius	1625nm	≤ 0.2	dB
Coating strip force	Typical average force	1.5	N
	Peak force	≥ 1.3 ≥ 8.9	N
Dynamic stress corrosion susceptibility parameter		27	