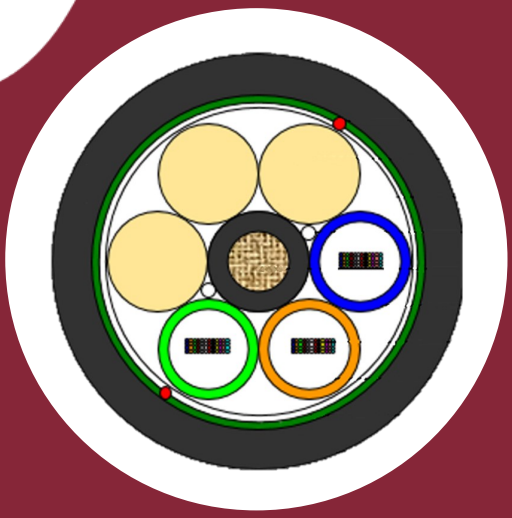

CONNECT
telecommunications solutions inc.

Ribbon in Loose-Tube Armored

Fibre Optic Cable

FEATURES AND BENEFITS

- G.657.A1 fibres
- 144 to 1728 fibre counts
- Steel-tape armor
- 25yrs warranty

OVERVIEW

Connect's Ribbon in Loose-Tube cable is an armored ribbon cable designed to meet the telecom industry standards. It is available in 144 to 1728 fibre counts, in 12 fibres matrix. This cable comes with a 25year warranty for typical service conditions without detriment to operational characteristics.

FIBRE PERFORMANCE (ITU-G.657.A1)

Category	Description	Value
Geometrical Characteristics	Cladding diameter	125 ± 0.7µm
	Core concentricity error	≤0.5µm
	Coating diameter	250 ± 15µm
Optical Characteristics	Attenuation at 1310nm	≤0.36dB/km
	Attenuation at 1550nm	≤0.22dB/km
	Zero dispersion wavelength	1300-1324 nm
Mechnical Specifications	Proof stress level	≥100kpsi
	Coating strip force (peak value)	1.3 ~ 8.9N
	Fibre curl (radius)	≥ 2m

CONTACT

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Spec Sheet Revision #1 July 2023

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DIMENSIONS AND CHARACTERISTICS

Item	Content	144	288	432	576	864	1728
Tube	Qty	3	6	6	6	6	18
	Ribbon per tube	4*12F	4*12F	6*12F	8*12F	12*12F	8*12F
	Diameter	5.2	5.2	5.8	6.2	7.6	6.2
	Filler	3	0	0	0	0	0
Strength member	Diameter	3.7	3.7	3.7	3.7	3.7	3.7
	PE Layer Dia. (mm)	5.4	5.4	6.0	6.4	7.4	6.4
Water blocking material		Water-blocking yarn and tape + gel-filled tubes					
Armor		Steel tape					
Oversheath	Material	MDPE with UV protection					
	Thickness (mm)	Nominal: 1.8					
Cable Diameter (mm)		21.8	21.8	23.6	24.8	28.6	37
Cable weight (kg/km)		360	360	410	440	570	945

MECHANICAL PERFORMANCE

Tension (N)		Crush (N/100mm)	
Short term	Long term	Short term	Long term
2700	900	2200	1100

APPLICATION

Item	Value
Operation Temprature	-40°C ~ +70°C
Installation Temperature	-40°C ~ +70°C
Storage Temperature	-40°C ~ +70°C
Static Bending Radius	10x the OD
Dynamic Bending Radius	20x the OD