

CHAIRLIFT HAULAGE ROPES

MONOCABLE ROPEWAYS TO CARRY PEOPLE AND MINERALS TIGER BRAND 6R (S)



6x19(S) FFC



6X19 (BRISTAR CORE)

APPLICATION:

Usually friction driven single endless rope systems for carrying people or minerals.

Round Strand or Triangular Strand construction recommended.

PROPERTIES REQUIRED:

Resistance to wear (Single layer, Langs lay).

Crushing: IWRC core could be considered.

Flexibility: Compound construction.

Galvanised as atmospheric conditions under ground can be wet or damp.

TYPICAL CONSTRUCTIONS:

Round Strand: Langs Lay, 6x19S, 6x26WS, 6X25F

Triangular Strand: Single Layer Langs Lay, 6x8TS, 6x9TS, 6x10TS

Compound Construction: 6x22TS, 6x23TS, 6x25TS, 6x28TS

ROUND STRAND PERFORMANCE CAN BE ENHANCED BY DYFORMING AS FOLLOWS:

Increased breaking loads for same diameter.

Reduced interface on drive sheaves and pulleys.

Increased resistance to crushing.

Improved fatigue life.

PERFORMANCE CAN BE FURTHER ENHANCED BY INTRODUCING ROUND STRAND WITH THE BRISTAR CORE AS FOLLOWS:

Reduces stretch.

Increases diameter stability and retention.

Increases fatigue life.

ROPE DESCRIPTION	
ROPE TYPE:	BRIDON TIGER BRAND 6R (NON DYFORM)(LANGS LAY)
ROPE CONSTRUCTION:	6x19(S) FFC (synthetic) [9/9/1]
ROPE SPECIFICATION:	EN 12385-8, 2002
ROPE DIAMETER TOLERANCE:	-0 - +5%
ROPE LENGTH TOLERANCE:	+0 - 2%

TENSILE STRENGTHS												
D(Ø) mm	1570 [N/mm²]				1770 [N/mm²]				1960 [N/mm²]			
	MABL		MBL		MABL		MBL		MABL		MBL	
	kN	(t)	kN	(t)	kN	(t)	kN	(t)	kN	(t)	kN	(t)
22	307	31.3	267	27.2	347	35.3	302	30.7	384	39.1	334	34
26	430	43.8	374	38.1	484	49.3	421	42.9	536	54.6	467	47.6
28	498	50.7	434	44.2	562	57.3	489	49.8	622	63.4	541	55.1

ROPE WEIGHT							
LUBRICATION CODE		FRICTION DRIVEN ROPE (kg/m)			MECHANICAL DRIVEN ROPE (kg/m)		
CORE TYPE		FC	FFC	BRISTAR	FC	FFC	BRISTAR
WEIGHT	22mm	1.76	1.73	1.76	1.8	1.77	1.8
	26mm	2.47	2.43	2.47	2.53	2.48	2.53
	28mm	2.87	2.81	2.87	2.93	2.87	2.93
STEEL AREA		mm ²			OUTER WIRE DIAMETER (mm)		
	22mm	196			1.96		
	26mm	274			2.1		
	28mm	318			2.26		