



**PLANT STANDARD  
HYDERABAD**

HY 724 83 63

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STEEL WIRE ROPE-UN GALVANISED, CONSTRUCTION 6x37(18/12/6/1), (TENSILE STRENGTH -1760 N/mm<sup>2</sup>)

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**1. SCOPE**

1.1 This standard covers ungalvanised steel wire ropes of 6x37 (18/12/6/1) construction-fibre core, ordinary lay, right handed having tensile strength of 1760 N/mm<sup>2</sup> ( 180 Kgf/mm<sup>2</sup>) of nominal diameter 8 to 56 mm.

**2. DESIGNATION**

2.1 A steel wire rope of nominal diameter 22 mm shall be designated as:

2.1.1 On drawings:

- i) Material specification column: HY 724 83 63
- ii) Description column : ST WIRE ROPE UNGAL 6x37 ND 22

2.1.2 For placing indents on Purchase: Steel wire rope-Ungalvanised fibre core, right hand ordinary lay construction  
6x37(18/12/6/1): ND 22  
AA 724 83 63.

2.1.3 For issuing enquiries and Purchase Orders: While issuing enquiries and on purchase orders, delete the corporate standard number from the above description and add the information given under clause 3.

**3. COMPLIANCE WITH NATIONAL STANDARDS**

3.1 Dimensions, tolerances and General requirements : To IS:2266-1970

3.2 Material: The steel wire rope shall be manufactured from steel wires of minimum tensile strength 1760 N/mm<sup>2</sup> conforming to IS: 1835. The fibre core of the wire rope shall comply with the requirements of IS:1804.

3.3 Marking: - As stated in IS:2266

3.4 Test certificates: Three copies of test certificates as specified in 'Appendix E' - IS:2266 shall be supplied with each reel of material (completed rope).

**4. BREAKING LOAD**

4.1 A tensile test for destruction of a sample of the steel wire rope shall be carried out in accordance with 'Appendix D' of IS:2266. The wire rope shall be accepted provided actual breaking strength of the rope shall not be less than the minimum breaking load specified in the table.

**5. MAXIMUM LOAD**

5.1 It is recommended that for normal condition of use, the maximum load for any wire rope should not exceed the safe working load.

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Revision **BROUGHT UPTO DATE**

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Issued

**STANDARDS SECTION  
TECHNICAL SERVICES DEPARTMENT**

Prepared  
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Approved:  
**K.L.M.**

Date **APRIL '80**

Date **JUNE 1983**



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TABLE - 1

ALL DIMENSIONS ARE IN mm

NOM. DIA.	MINIMUM BREAKING LOAD OF ROPE(kgf)	WEIGHT PER 100 METERS (Kg)	STOCK SYMBOL	NEW CODE		USER SHOPS/DEPARTMENTS								
				OLD CODE						M&S PD	M&S Gas Plt.	M&S Cranes		
6			△	HY 724 83 63 014 724 28 00 305								✓	✓	✓
8	3400	22.1	⊙	HY 724 83 63 022 724 28 00 307									✓	✓
9	4300	28.0	○											
10	5310	34.6	⊙	HY 724 83 63 049 724 28 00 309										✓
11	6420	41.9	○											
12	7640	49.8	⊙	HY 724 83 63 065 724 28 00 311										✓
13	8970	58.5	⊙	HY 724 83 63 073 724 28 00 312								✓		
14	10400	67.8	⊙	HY 724 83 63 081 724 28 00 313										✓
16	13600	88.6	⊙	HY 724 83 63 090 724 28 00 314										✓
18	17200	112	⊙	HY 724 83 63 103 724 28 00 315										✓
20	21200	138	⊙	HY 724 83 63 111 724 28 00 316								✓	✓	
22	25700	167	⊙	HY 724 83 63 120 724 28 00 317										✓
24	30600	199	⊙	HY 724 83 63 138 724 28 00 318										✓
26	35900	234	⊙	HY 724 83 63 146 724 28 00 319								✓	✓	
28	41600	271	⊙	HY 724 83 63 154 724 28 00 320										✓
32	54300	354	⊙	HY 724 83 63 162 724 28 00 321										✓
36	68800	448	⊙	HY 724 83 63 170 724 28 00 322										✓
40	84900	554	⊙	HY 724 83 63 189 724 28 00 323										✓
44	103000	670	⊙	HY 724 83 63 197 724 28 00 324										✓
48	122000	797	⊙	HY 724 83 63 200 724 28 00 325										✓
52	143000	936	⊙	HY 724 83 63 219 724 28 00 326										✓
56	160000	1090	⊙	HY 724 83 63 227 724 28 00 327										✓

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