British Telecommunications plc

SPECIFICATION TL 261G

FOR

RODS, DUCT NOS 1 AND 2

DRAWINGS CN 2682, 91388, CN 5029, CN 5030, CN 5041, CN 5042, CN 5043

C O N T E N T S

1 GENERAL NOTES

1.1 All details, dimensions and instructions shown on any drawings, diagrams and specifications herein shall be taken as forming part of this Specification. The latest issue of the relative Drawings, Diagrams or Specifications will be indicated in the invitation to tender. If the latest issues are not already held by the contractor, copies should be obtained by application to the department issuing the tender.

1.2 The first issue of a Specification carries a number without a suffix letter: amendments to British Telecommunications (BT) Specifications and Drawings are advanced in issue at an amendment by the addition of a suffix letter to the Specification/Drawing Number. At any subsequent amendment the suffix is further advanced by one letter, excluding the letters I and O.

1.3 When a British Standard or other Government Department Specification is quoted by number only, the latest issue of that Specification is to be followed, but if in addition to the number a particular issue is quoted, that issue of the Specification is to be followed.

1.4 If there is any discrepancy between Patterns and Drawings or Drawings and Specifications then the discrepancy shall be reported to the department issuing the tender, for clarification.

2 DESCRIPTION

2.1 The rods shall be made from unplasticized polyvinyl chloride. The outside diameter shall be 23.8 $\pm$ 0.2 mm (0.937 $\pm$ 0.007 inch), with a wall thickness of 3.2 mm (0.125 inch). The colour shall be yellow.

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2.2 The rods shall be straight, smooth and free from surface imperfections. The coupled length of each Rod Duct No. 1 (ie from coupling shoulder to coupling shoulder) shall be 3000 mm ± 5 mm. For Rod Duct No. 2 this length shall be 2000 mm ± 5 mm.

2.3 The rods shall have couplings to Drawings CN 2682, 91388, CN 5029, CN 5030, CN 5041, CN 5042 and CN 5043; male fitting one end and female at the other. The couplings shall be a tight fit on the rod. The locking catch and hole in the threaded parts of the couplings shall be so placed that they mate correctly with patterns supplied by BT.

2.4 The couplings shall be securely fixed to the rod by cross-riveting using 4 mm or $^{3}/_{16}$" diameter brass rivets in countersunk holes. The rivets are to be finished flush.

3 TESTS

3.1 The rod shall pass the following tests, as defined in BS 3506 1969, as amended 1973 and 1975:-

i Tensile test - Clause 9.1 BS 3506.

ii Dimensional stability on heating - Clause 8.2 BS 3506.

iii Resistance to acetone - Clause 8.3 BS 3506.

iv Resistance to impact - Clause 9.2 BS 3506 (Total Load 2.5 kg).

3.2 Additionally, the rod shall pass the following tests:-

Resistance to Bending - When a sample of the rod is simply supported, with a span of 1.5 m and subjected to a mid-span load of 2.5 kg, the deflection at mid-span, due to the load and in the direction of application of the load, shall be within the limits 65 mm to 90 mm. This test shall be performed with the test sample at a temperature of 20-25°C.

Flexibility - When a sample of rod of 700 mm-1000 mm is flexed to form an arc of 500 mm radius and straightened again at a rate of 10 cycles/min at a temperature of 20-25°C, the rod shall withstand a minimum of 12,500 cycles before fracture occurs. In addition, the rod shall be capable of bending around a 1 m diameter mandrel without fracture at a temperature not exceeding 20°C.

The contractors attention is drawn to Quality Requirement Specifications QR1 and QR4.

BT may require samples of rod prior to bulk manufacture and during the course of any contract. Testing of such samples by BT in no way absolves the tenderer/contractor from demonstrating compliance with this Specification and the Specifications and Drawings quoted above.

4 MARKING

The couplings shall be marked by an approved method with the contractor's name or code, the year of manufacture and the letters BT.

5 INFORMATION TO BE SUPPLIED WITH TENDER

The tenderer shall supply full details of the grade, Specification and source of the polymer he proposes to use for the manufacture of the rod.

6 REFERENCES

Drawings CN 2682, 91388, CN 5029, CN 5030, CN 5041, CN 5042, CN 5043
BS 3506 1969; amended 1973 and 1975
BT Specifications QR1 and QR4 (latest issues will be indicated on the invitation to tender - see Para 1 above).

END OF SPECIFICATION

NSET3.1.3
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