
 <p>Sri Lanka Telecom One Country. One Voice.</p>	<p>Specification for OSP Material Aerial Cable Fittings</p> <p>OQMS SGD 049 - V2</p>	<p>Issue No. : 01 Date of Issue : 14-Jul-2012 Revision No. : 02 Date of Revision : 19- Mar-2018 Page : 1 of 11</p>
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1 Scope

This specification covers the requirement of an anchorage, for a pole of an aerial route when the pole is subjected to an angle pull or a longitudinal pull due to the tension and weight of the cable.

2 References

OSP Manual - 2009

3 Materials and Construction

3.1 Pole Attachment

The pole attachment should be made of mild steel and confirm to ISO 630 of 1995 (B.S.4360 of 1990 Grade 43 E).

3.2 Cable Hanger Bracket

The cable hanger bracket should be made of cast iron and confirm to B.S.1452 of 1977.

3.3 Estimated Material Weight

Approximate Weight of a Straight Fitting ~ 2.6 kg (± 0.5 kg)
Approximate Weight of a Sharp angel fitting ~ 1.8 kg (± 0.5 kg)
Approximate Weight of a Mild angel fitting ~ 3.1 kg (± 0.5 kg)
Approximate Weight of a Terminal fitting ~ 1.95 kg (± 0.5 kg)

4 Characteristics and Requirements


4.1 Mechanical Properties of Pole Attachment

- 4.1.1 The Minimum Yield Strength - **275 N/mm²**
- 4.1.2 The Ultimate Tensile Strength - **430 ~580 N/mm²**
- 4.1.3 The Minimum Elongation - **34%**

It is necessary to galvanize the item from M/s Lanka Transformer Ltd to confirm that the item is galvanized properly.

The dimension of Pole Attachment for Aerial Cable Straight Fittings and Mild Angle Fittings are given in Drawing 1 in page 4

The dimension of Cable Hanger Bracket for Straight Fittings are given in Drawing 2 in page 5

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The dimension of Cable Hanger Bracket for Mild Angle Fittings are given in Drawing 3 in page 6

The dimension of Sharp Angle Fitting for Aerial Cables is in Drawing 4 in page 7

And the dimension of Terminal Fitting for Aerial Cables in drawing 5 in page 8 is available in this document.

5 Marking

The following indelible marking shall be made on the surface of the Aerial Cable Fitting and be clearly seen.

5.1.1 Manufacturer's Name

5.1.2 Month and year of Manufacture

5.1.3 SLT Logo – Presently valid logo shall be collected from Procurement Division of SLT

6 Methods of Test

6.1 Compliance Sheet – to be checked at QA Section – in Page 4

6.2 Compliance Sheet – submitted by the supplier for tender purposes – in Page 5

6.3 Certificates for Specification Compliance

The supplier shall submit a test certificate(s) to conform all parameters mentioned in this specification from a local institute such as following:

6.3.1 University of Moratuwa

6.3.2 ITI Sri Lanka

6.3.3 Sri Lanka Standards Institute


6.3.4 Arthur C. Clarke Institute for Modern Technologies, Katubedda, Moratuwa

The cost of above testing shall be borne by the supplier.

6.4 Field Test Report


– See the format below.

Field Test Report – to be filled by the field staff at the Installation		
No	Observations/ Experience at the Installation/ subsequent	Comment
1.	Damaged at the installation	Yes/ No

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2.	Can be fixed properly	Yes/ No
3.	Corroded after (mention the period)months/ at the installation
4.	Recommendation to install in SLT network	Recommended/ Not Recommended
5.	Signature.....	Date:.....




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7 Compliance Sheet – To be checked at Quality Assurance Division

Mechanical Properties

Condition	Standard values	Test Values	Remarks
Min. Yield Strength	275 N/mm ²		
Ultimate tensile Strength	430 ~ 580 N/mm ²		
Min. Elongation	34%		
Marking			
Manufactures' Name			
Date of Manufacture			
SLT Logo			
Materials are according to the Specification (if not state below)			
Dimensions are according to the Specification (if not state below)	Pole attachment		
	Straight Fitting		
	Mild Angle fitting		
	Sharp Angle Fitting		
	Terminal Fitting		
Other Requirements	Galvanization Certificate available with the lot		

Table 1 Compliance Sheet to be checked at the Quality Inspection

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8 Compliance Sheet

– To be filled by the supplier for Tenders/ Sample submission for Standardisation

Mechanical Properties

Condition	SLT Values	Complied/ Not	Remarks
Min. Yield Strength	275 N/mm ²		
Ultimate tensile Strength	430 ~ 580 N/mm ²		
Min. Elongation	34%		


Marking

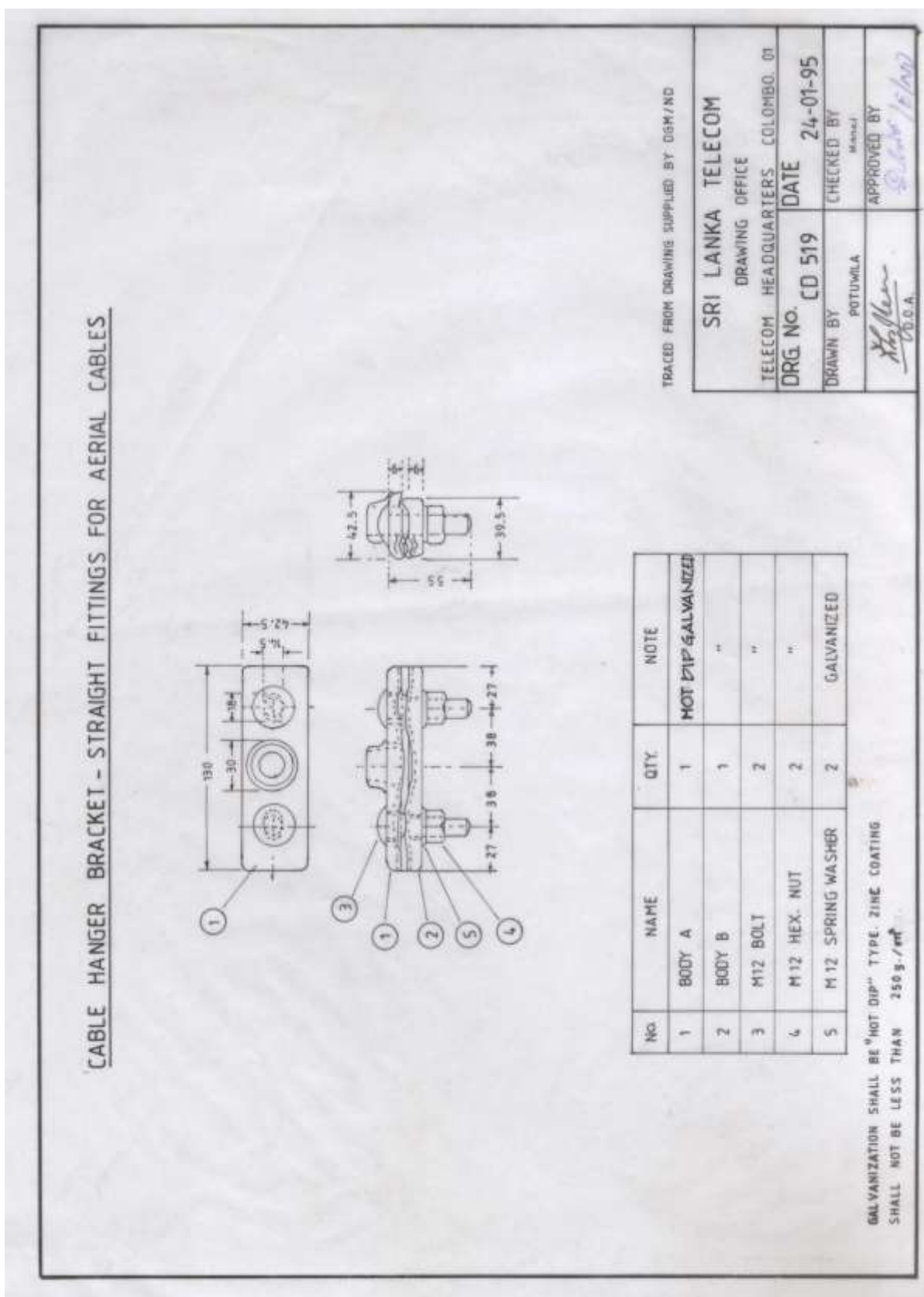
Manufacturer's Name	Yes		
Month & Year of Manufacture	Yes		
SLT Logo	Yes		
Materials are according to the Specification	Yes		

	Item Description	Complied/ Not
Dimensions are according to the Specification (if not state below)	Pole attachment	
	Straight Fitting	
	Mild Angle fitting	
	Sharp Angle Fitting	
	Terminal Fitting	
Other Requirements	Galvanization Certificate will be submitted with the lot	

Signature of Supplier.....Date



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Drawing 2 Cable Hanger Bracket



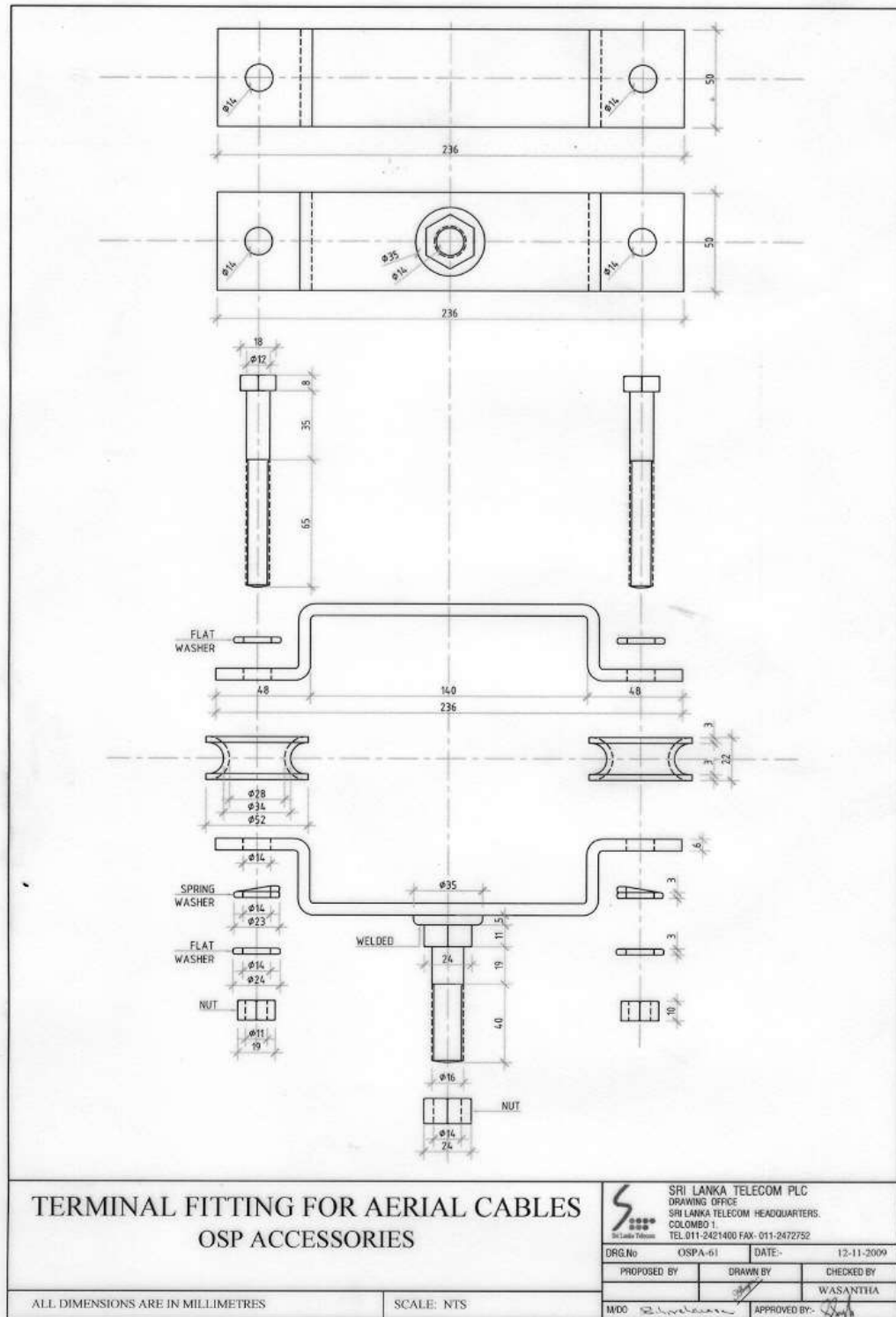


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Drawing 5 Terminal Fitting For Aerial Cables