

अनिवार्य आवश्यकताएँ

संख्या : TEC70022110

Essential Requirements

ER No. : TEC70022110

Optical Fibre Cable

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Telecommunication Engineering Centre

Government of India

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Essential Requirements for:

Optical Fibre Cable

Certification Scheme: **GCS**

Product Fee Group: **C**

This ER covers different types of Optical fibre Cables for different applications like Duct, Direct Buried, Aerial, Access Network, DSA, Hybrid Cables etc.

Note: Annexures referred to in this ER are Annexures as mentioned in "Annexures to ERs" No. TEC/SD/DD/TCP-222/02/June19 as updated from time to time and available on MTCTE portal.

This product has the following variants:

1. Hybrid Cable - Optical and Metallic
2. Optical Fibre Cable - ADSS on Aerial alignment
3. Optical Fibre Cable - ADSS over Power line
4. Optical Fibre Cable - Direct Buried
5. Optical Fibre Cable - DSA
6. Optical Fibre Cable - Duct
7. Optical Fibre Cable - In home
8. Optical Fibre Cable - Indoor
9. Optical Fibre Cable - Indoor/Outdoor
10. Optical Fibre Cable - Lashed Aerial
11. Optical Fibre Cable - Micro-Duct
12. Optical Fibre Cable - Outdoor
13. Optical Fibre Cable - Riser

14. Optical Ground Wire -OPGW

1. Variant 1 : Hybrid Cable - Optical and Metallic

1.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
1.1.1	Characteristics of Cable Elements (Buffer Tube) (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.2	Characteristics of Cable Elements (Ribbed Fibre) (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.3	Colour qualification for color fibres (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.4	Electrical Characteristics Power Feeding Wires (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.5	Electromagnetic Compatibility (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.6	Environmental Characteristics (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.7	Geometrical Characteristics of Fibre used in the cable (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.8	Mechanical Characteristics (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.9	Mechanical Characteristics of Fibre used in the cable (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.10	Safety Requirements (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.11	Transmission Characteristics (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.12	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Hybrid Cables -Optical and Metallic)	Annex -Tx-A6-OFC
1.1.13	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Hybrid	Annex -Tx-A6-OFC

Cables -Optical and Metallic)	
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2. Variant 2 : Optical Fibre Cable - ADSS on Aerial alignment

2.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
2.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.3	Colour qualification for color fibres (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.4	Environmental Characteristics (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.6	Mechanical Characteristics (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.8	Safety Requirements (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.9	Transmission Characteristics (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC
2.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - ADSS on Aerial alignment)	Annex -Tx-A3-OFC

3. Variant 3 : Optical Fibre Cable - ADSS over Power line

3.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
3.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.2	Characteristics of Cable Elements (Ribbed Fibre) (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.3	Colour qualification for color fibres (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.4	Environmental Characteristics (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.6	Mechanical Characteristics (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.8	Safety Requirements (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.9	Transmission Characteristics (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC
3.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - ADSS along Power Line)	Annex -Tx-A3-OFC

4. Variant 4 : Optical Fibre Cable - Direct Buried

4.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
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4.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.3	Colour qualification for color fibres (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.4	Environmental Characteristics (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.6	Mechanical Characteristics (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.8	Safety Requirements (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.9	Transmission Characteristics (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC
4.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Direct Buried)	Annex -Tx-A2-OFC

5. Variant 5 : Optical Fibre Cable - DSA

5.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
5.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - Direct Surface	Annex -Tx-A5-OFC

	Application (DSA)	
5.1.3	Colour qualification for color fibres (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.4	Environmental Characteristics (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.6	Mechanical Characteristics (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.8	Safety Requirements (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.9	Transmission Characteristics (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC
5.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Direct Surface Application (DSA))	Annex -Tx-A5-OFC

6. Variant 6 : Optical Fibre Cable - Duct

6.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
6.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.2	Characteristics of Cable Elements (Ribbonded Fibre) (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.3	Colour qualification for color fibres (Optical	Annex -Tx-A1-OFC

	Fibre Cables - Duct)	
6.1.4	Environmental Characteristics (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.6	Mechanical Characteristics (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.8	Safety Requirements (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.9	Transmission Characteristics (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC
6.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Duct)	Annex -Tx-A1-OFC

7. Variant 7 : Optical Fibre Cable - In home

7.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
7.1.1	Colour qualification for color fibres (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.2	Environmental Characteristics (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.3	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.4	Mechanical Characteristics (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.5	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.6	Safety Requirements (Optical Fibre Cables -	Annex -Tx-A4-OFC

	In-Home)	
7.1.7	Transmission Characteristics (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.8	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC
7.1.9	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - In-Home)	Annex -Tx-A4-OFC

8. Variant 8 : Optical Fibre Cable - Indoor

8.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
8.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.3	Colour qualification for color fibres (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.4	Environmental Characteristics (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.6	Mechanical Characteristics (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.8	Safety Requirements (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.9	Transmission Characteristics (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
8.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC

8.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Indoor)	Annex -Tx-A4-OFC
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9. Variant 9 : Optical Fibre Cable - Indoor/Outdoor

9.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
9.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.2	Characteristics of Cable Elements (Ribbed Fibre) (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.3	Colour qualification for color fibres (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.4	Environmental Characteristics (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.6	Mechanical Characteristics (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.8	Safety Requirements (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.9	Transmission Characteristics (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC
9.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Indoor or Outdoor)	Annex -Tx-A4-OFC

10. Variant 10 : Optical Fibre Cable - Lashed Aerial

10.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
10.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.2	Characteristics of Cable Elements (Ribbed Fibre) (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.3	Colour qualification for color fibres (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.4	Environmental Characteristics (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.6	Mechanical Characteristics (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.8	Safety Requirements (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.9	Transmission Characteristics (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC
10.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Lashed Aerial)	Annex -Tx-A3-OFC

11. Variant 11 : Optical Fibre Cable - Micro-Duct

11.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
11.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.3	Colour qualification for color fibres (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.4	Environmental Characteristics (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.6	Mechanical Characteristics (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.8	Safety Requirements (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.9	Transmission Characteristics (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC
11.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Micro Duct)	Annex -Tx-A1-OFC

12. Variant 12 : Optical Fibre Cable - Outdoor

12.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
12.1.1	Characteristics of Cable Elements (Buffer	Annex -Tx-A4-OFC

	Tube) (Optical Fibre Cables - Outdoor)	
12.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.3	Colour qualification for color fibres (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.4	Environmental Characteristics (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.6	Mechanical Characteristics (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.8	Safety Requirements (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.9	Transmission Characteristics (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC
12.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Outdoor)	Annex -Tx-A4-OFC

13. Variant 13 : Optical Fibre Cable - Riser

13.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
13.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.2	Characteristics of Cable Elements (Ribboned Fibre) (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.3	Colour qualification for color fibres (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC

13.1.4	Environmental Characteristics (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.6	Mechanical Characteristics (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.8	Safety Requirements (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.9	Transmission Characteristics (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC
13.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Fibre Cables - Riser)	Annex -Tx-A4-OFC

14. Variant 14 : Optical Ground Wire -OPGW

14.101 Parameters Linked with Product Variant

S.No.	Parameter Name	Standard Name
14.1.1	Characteristics of Cable Elements (Buffer Tube) (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.2	Characteristics of Cable Elements (Ribbed Fibre) (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.3	Colour qualification for color fibres (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.4	Environmental Characteristics (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.5	Geometrical Characteristics of Fibre used in the cable (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.6	Mechanical Characteristics (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC

14.1.7	Mechanical Characteristics of Fibre used in the cable (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.8	Safety Requirements (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.9	Transmission Characteristics (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.10	Transmission Characteristics of Fibre used in the Cable (Chromatic Dispersion) (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC
14.1.11	Transmission Characteristics of Fibre used in the cable (Fibre Macro bend loss) (Optical Ground Wire - OPGW)	Annex -Tx-A3-OFC