

Technical Requirements For Instrument Cables

Power supply for instrumentation 230 V

3G x 1,5
3G x 2,5

The cables should be new and meet below listed LST-EN, EN, IEC standards and requirements:



1. Environment conditions:

Atm. Pressure average	101,3 kPa (760 mmHg)
Max. ambient temperature	33 °C
Min. ambient temperature	-36 °C
Design max. ambient temperature	26,8 °C
Design max. ambient temperature	-28 °C
Rel. humidity, max.	89%
Rel. humidity average	63%

2. The cable should be self-extinguishing and flame retardant according to IEC 60332-1
3. The cable should be suitable for industrial plant fixed outside installation, resistant to ultraviolet rays.
4. Nominal voltage U_0/U 0,6/1 kV.
5. Bare copper, stranded wire conductor.
6. Cores colours black with sequential numbering.
7. With braided screen of tinned Cu wires, coverage approximately 85%.
8. Outer sheath colour black.
9. With green-yellow earth core in the outer layer
10. Halogen Free according Standard IEC 60754-2

Technical Requirements For Instrument Cables

Single and multipairs cable for electronic signals

-  **Singlepair 1x2x1**
-  **Multipair nx2x1 (n=4, 8, 12, 16, 20, 24)**

The cables should be new and meet below listed LST-EN, EN, IEC standards and requirements:



1. Environment conditions:

Atm. Pressure average	101,3 kPa (760 mmHg)
Max. ambient temperature	33 °C
Min. ambient temperature	-36 °C
Design max. ambient temperature	26,8 °C
Design max. ambient temperature	-28 °C
Rel. humidity, max.	89%
Rel. humidity average	63%

2. The cable should be self-extinguishing and flame retardant according to IEC 60332-1
3. The cable shall have the grey outer sheath .
4. The cable should be suitable for industrial plant fixed outside installation, resistant to ultraviolet rays.
5. Nominal voltage U_0/U 300/500 V.
6. Bare copper, stranded wire conductors.
7. Cores twisted to pairs, colors black and white with pair numbering.
8. With electrostatic metal foil screen and tinned drain wire, PIMF (pair in metal foil)
9. Halogen Free according Standard IEC 60754-2

Technical Requirements For Instrument Cables

Single and multipairs cable for intrinsically safe electronic signals

-  **Singlepair 1x2x1**
-  **Multipair nx2x1 (n=4, 8, 12, 16, 20, 24)**

The cables should be new and meet below listed LST-EN, EN, IEC standards and requirements:



1. Environment conditions:

Atm. Pressure average	101,3 kPa (760 mmHg)
Max. ambient temperature	33 °C
Min. ambient temperature	-36 °C
Design max. ambient temperature	26,8 °C
Design max. ambient temperature	-28 °C
Rel. humidity, max.	89%
Rel. humidity average	63%

2. The cable should be self-extinguishing and flame retardant according to IEC 60332-1
3. The cable shall have the light blue outer sheath and should be supplied with vendor certificate that confirms cable technical characteristics, for hazardous areas type „i“ installation according EN 60079-14
4. The cable should be suitable for industrial plant fixed outside installation, resistant to ultraviolet rays.
5. Nominal voltage U_0/U 300/500 V.
6. Bare copper, stranded wire conductors.
7. Cores twisted to pairs, colors black and white with pair numbering.
8. With electrostatic metal foil screen and tinned drain wire, PIMF (pair in metal foil)
9. Halogen Free according Standard IEC 60754-2

Technical Requirements For Instrument Cables

Power supply for 24V DC

-  **Single cable 2x1,5;2,5;4**
-  **Multicore cable nx1,5;2,5;4 (n= 8, 16, 24)**

Power supply for intrinsically safe equipment 24V DC

-  **Single cable 2x1,5**
-  **Multicore cable nx1,5 (n= 8, 16, 24)**

The cables should be new and meet below listed LST-EN, EN, IEC standards and requirements:



1. Environment conditions:

Atm. Pressure average	101,3 kPa (760 mmHg)
Max. ambient temperature	33 °C
Min. ambient temperature	-36 °C
Design max. ambient temperature	26,8 °C
Design max. ambient temperature	-28 °C
Rel. humidity, max.	89%
Rel. humidity average	63%

2. The cable should be self-extinguishing and flame retardant according to IEC 60332-1
3. The cable shall have the light blue outer sheath and should be supplied with vendor certificate that confirms cable technical characteristics, for hazardous areas type „i“ installation according EN 60079-14.
For non intrinsically safe installation outer sheath grey.
4. The cable should be suitable for industrial plant fixed outside installation, resistant to ultraviolet rays.
5. Nominal voltage U_0/U 300/500 V.
6. Bare copper, stranded wire conductors.
7. Cores colours black with sequential numbering.
8. With electrostatic metal foil screen and tinned drain wire.
9. Halogen Free according Standard IEC 60754-2

Technical Requirements For Instrument Cables

Single and multipairs cable for Digital Signal

-  **Singlepair 1x2x1**
-  **Multipair nx2x1 (n=4, 8, 12, 16, 20, 24)**

The cables should be new and meet below listed LST-EN, EN, IEC standards and requirements:

1. Environment conditions:

Atm. Pressure average	101,3 kPa (760 mmHg)
Max. ambient temperature	33 °C
Min. ambient temperature	-36 °C
Design max. ambient temperature	26,8 °C
Design max. ambient temperature	-28 °C
Rel. humidity, max.	89%
Rel. humidity average	63%

2. The cable should be self-extinguishing and flame retardant according to IEC 60332-1
3. The cable shall have the grey outer sheath .
4. The cable should be suitable for industrial plant fixed outside installation, resistant to ultraviolet rays.
5. Nominal voltage U_0/U 300/500 V.
6. Bare copper, stranded wire conductors.
7. Cores twisted to pairs, colours black and white with pair numbering.
8. With electrostatic metal foil screen and tinned drain wire.
9. Halogen Free according Standard IEC 60754-2