



ITU-T Resistivity Ad Hoc

IEEE 802.3 Ethernet Working Group

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March 16, 2016

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ITU-T K Series Information (4/2015)

- ITU-T K.20 - SERIES K: PROTECTION AGAINST INTERFERENCE
 - Resistibility of telecommunication equipment installed in a telecommunication centre to overvoltages and overcurrents
 - http://ieee802.org/3/private/liaison_docs/itu/ITU_SG5-LS-136_to_IEEE_802d3_att1-Kd20.pdf
- ITU-T K.21 - SERIES K: PROTECTION AGAINST INTERFERENCE
 - Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents
 - http://ieee802.org/3/private/liaison_docs/itu/ITU_SG5-LS-136_to_IEEE_802d3_att2-Kd21.pdf
- ITU-T K.21 - SERIES K: PROTECTION AGAINST INTERFERENCE
 - Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents
 - http://ieee802.org/3/private/liaison_docs/itu/ITU_SG5-LS-136_to_IEEE_802d3_att3-Kd45.pdf
- All of these deal with the effects of lightning strikes and transients on the AC mains and communications cabling

ITU-T K Series Information (4/2015)

- ITU-T K.20 - SERIES K: PROTECTION AGAINST INTERFERENCE
 - Resistibility of telecommunication equipment installed in a telecommunication centre to overvoltages and overcurrents
 - Major changes compared with the 2011 version of this Recommendation include:
 - added test requirements for unshielded twisted pair (UTP) Ethernet;
 - added test requirements for shielded twisted pair STP Ethernet;
 - added test requirements for power over Ethernet (PoE);
 - added STP shield testing.
- ITU-T K.21 - SERIES K: PROTECTION AGAINST INTERFERENCE
 - Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents
 - Major changes compared with the 2011 version of this Recommendation include:
 - added test requirements for unshielded twisted pair (UTP) Ethernet;
 - added test requirements for shielded twisted pair STP Ethernet;
 - added test requirements for power over Ethernet (PoE);
 - added STP shield testing.

ITU-T K Series Information (4/2015)

- ITU-T K.45 - SERIES K: PROTECTION AGAINST INTERFERENCE
 - Resistibility of telecommunication equipment installed in a telecommunication centre to overvoltages and overcurrents
 - Major changes compared with the 2013 version of this Recommendation include:
 - added test requirements for unshielded twisted pair (UTP) Ethernet;
 - added test requirements for shielded twisted pair STP Ethernet;
 - added test requirements for power over Ethernet (PoE);
 - added STP shield testing.

ITU-T K Series Summary

- Ethernet ports over various media types have been added to three ITU-5 SG5 K Series recommendations
- The specified withstand voltages and currents are different in some cases than what is specified in IEEE Std 802.3-2015 for isolation voltage tests
- Some new tests not in IEEE Std 802.3-2015 are in these recommendations
- The cover (liasion) letter was to a general distribution list and no response is required