

Symposium Speaker

Name	Kwanhee Han
Affiliation	LS cable and system
Presentation Title	Status of Electrical and Optical Cabling for Broadband Access and 5G Networks

Biography

Dr. Kwanhee Han has been involved the development and engineering for active and passive infrastructure including the PON system, optical and electrical cable, and relative accessories in area of optical access network, hyper-scale data center and 4G/5G mobile network. He has over twenty-five years' experience in the telecommunication industry in Korea and Asia-pacific region. Since 2004, he joined the LS cable and system and executed the various and realistic projects including FTTx network design, deployment of submarine cable, installation of intelligent datacenter infrastructure, fire-safety wireless network, hybrid cable and leaky coaxial cable for mobile network. He received the B.S., M.S. and Ph. D. degree in electrical engineering from Korea Advanced Institute of Science and Technology (KAIST) in Korea.

200 words abstract

We introduce current status of electrical and optical cabling for broadband access and 5G networks. As the throughput demand is increasing more than 1Gbps, the PON technologies are highlighted in green field by virtue of the backward-compatible and passive features in outdoor environment. The XG. fast over existing copper cable can be considered as alternative in short range area of blown field. For coming5G broadband services, the ultra-high density optical cable and pre-terminated FTTA solution will be the revolutionized transmission medium in terms of mass capability and quick installation.