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supports the contact wire. Conductor
Any insulated wire, cable or bar that
Page 25/39

carries electric current. Contact wire Carries the electricity which is supplied to...

Network Rail A Guide to Overhead Electrification Overhead lines, like most electrified systems, require a greater capital Page 26/39

expenditure when building the system than an equivalent nonelectric system. While a conventional rail line requires only the grade, ballast, ties and rails, an overhead system also requires a complex system of support structures, lines, insulators, power-control systems ...

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Overhead line - Wikipedia A railway electrification system supplies electric power to railway trains and trams without an on-board prime mover or local fuel supply. Electric railways use either electric locomotives, electric multiple units or Page 28/39

both. Electricity is typically generated in large and relatively efficient generating stations, transmitted to the railway network and distributed to the trains. Some electric railways have their own dedicated generating stations and transmission lines, but most purchase power from

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Railway electrification system Tension wheel assemblies in the Sicat 8WL5070, 8WL5071, and 8WL5078 product lines automatically and flexibly tension contact and/or catenary wires in mass transit and Page 30/39

main line railways. They are part of the tension wheel equipment and maintain the contact wire or catenary wire at a specified constant tensile force – regardless of temperaturedependent variations in wire length.

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Kiessling and his Siemens colleagues deserve considerable credit for updating the technical literature on electric railways with the release of this latest edition of their book.

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These are independent of the contact system used, so that, for example, 750V DC may be used with either third rail or overhead lines (the latter normally by trams).

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