

# **What is the material of base station communication cable**





## Overview

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Copper-beryllium (CuBe) alloys provide high strength, conductivity and corrosion resistance with good machinability for a range of telecom applications - including wireless antenna, towers, 5G connectors in base stations and data centers, and test sockets and probe pins for semiconductor testing. What are the components of a cable?

Conductor: The core part of the cable, responsible for current transmission, common materials are copper or aluminum. Shielding layer: Reduce electromagnetic interference, common materials are copper tape and braided copper wire. Filling: Fill the internal gaps of the cable, materials include plastic and hygroscopic materials.

What materials are used to make a cable?

Filling: Fill the internal gaps of the cable, materials include plastic and hygroscopic materials. Armor layer: Enhance mechanical strength, such as steel belt armor (such as VV22) and steel wire armor. Conductor twisting: Multiple strands of fine wires are twisted to improve flexibility, such as RV soft wire.

What types of cables are used in a computer system?

Communication cable: transmits signals, such as UTP network cable and optical cable. Control cable: used for control loops, such as KVVVP cable. Special cables: such as high temperature resistant, fire resistant, and waterproof cables. Overhead cable: used for power transmission, such as JKLYJ insulated wire.

What are the different types of cable sheaths?

Rubber sheath: soft and elastic, used for mobile equipment (such as YC cable). Metal sheath: such as lead-sheathed cable, moisture-proof and mechanical damage-proof. Fireproof sheath: such as fire-resistant mica tape, used in places with high fire risk. Waterproof sheath: such as waterproof rubber-sheathed cable, suitable for humid environments.



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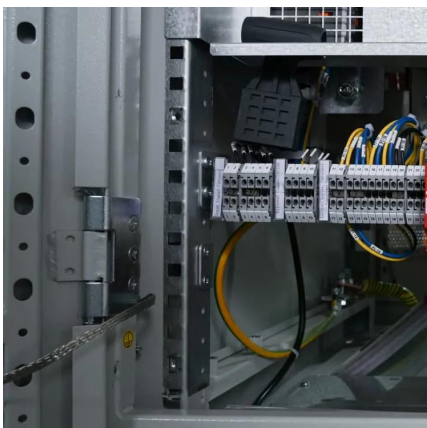


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## Solutions for Base Station Components , Syensqo

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## An Introduction to Telecommunication Cables

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