


```
.b_imagePair .b_wikiRichcard_image_caption{margin-right:110px}.b_wikiRichcard_noHeroSection
.b_imagePair .sml{display:none}#b_results li.b_algoBigWiki: hover h2
a{text-decoration:underline}.b_wikiRichcard_noHeroSection .b_floatR_img{padding:0 0
var(--smtc-gap-between-content-x-small)
var(--smtc-gap-between-content-x-small)}.b_wikiRichcard_noHeroSection{margin-top:var(--smtc-gap-betwe
en-content-x-small);margin-bottom:var(--smtc-gap-between-content-xx-small);box-sizing:border-box}#b_con
tent #b_results .b_algo .b_wikiRichcard .tab-head .tab-menu
li.tab-active{box-shadow:none;background:var(--bing-smtc-background-ctrl-subtle-rest);border-radius:var(--
mai-smtc-corner-list-card-default);color:var(--bing-smtc-foreground-content-brand-rest)}#b_content
#b_results .b_algo .b_wikiRichcard:not(:has(.tab-navr)) .tab-head .tab-menu
li: hover{background:var(--smtc-background-ctrl-neutral-hover);color:var(--bing-smtc-foreground-content-bra
nd-rest);border-radius:var(--mai-smtc-corner-list-card-default)}.b_wikiRichcard .tab-head .tab-menu
ul{gap:var(--smtc-gap-between-content-small)}#b_results .tab-menu li: hover{box-shadow:none}#b_content
#b_results .b_wikiRichcard .tab-active:focus-visible{outline:0}#b_results .b_wikiRichcard
.tab-menu,#b_results .b_wikiRichcard .tab-menu li,#b_results .b_wikiRichcard .tab-menu
ul{height:auto;line-height:var(--AC_LineHeight)}#b_results .b_wikiRichcard
.tab-head{display:flex;justify-content:center;align-items:center}#b_results .b_wikiRichcard
.tab-head:has(tab-navr){width:fit-content}#b_results .b_wikiRichcard .tab-head
li{padding-top:var(--smtc-gap-between-content-x-small);padding-bottom:var(--smtc-gap-between-content-x-s
mall)}#b_results .b_wikiRichcard .tab-container{padding-bottom:0}.b_wikiRichcard_noHeroSection
span{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_results .b_wikiRichcard,#b_results
.b_wikiRichcard span{font:var(--bing-smtc-text-global-body3)}#b_content #b_results .b_algo
.b_wikiRichcard .tab-head .tab-menu li
.tab-active{color:var(--smtc-foreground-content-neutral-primary)}#b_content #b_results .b_algo
.b_wikiRichcard .tab-head .tab-menu li: not(.tab-active){color:var(--bing-smtc-foreground-content-neutral-tertiary)}#b_content #b_results .b_algo
.b_wikiRichcard: not(:has(.tab-navr)) .tab-head .tab-menu
li: not(.tab-active): hover{color:var(--bing-smtc-foreground-content-brand-rest)}.b_wikiRichcard
.b_vList>li{padding-bottom:var(--smtc-gap-between-content-xx-small)}#b_results>li .b_wikiRichcard
a{color:var(--smtc-ctrl-link-foreground-brand-rest)}.mc_fh{height:100%;border-radius:6px}.mc_tc_bs{overfl
ow:hidden}.pvc_title_with_frows{padding-bottom:10px}.paratitle
.actionmenu{float:right;margin-top:-26px}.paratitle .actionmenu::after{float:none}.b_paractl,#b_results
.b_paractl{line-height:1.5em;padding-bottom:10px}#tabcontrol_19_CD3652 .tab-head { height: 40px; }
#tabcontrol_19_CD3652 .tab-menu { height: 40px; } #tabcontrol_19_CD3652_menu { height: 40px; }
#tabcontrol_19_CD3652_menu>li { background-color: #ffffff; margin-right: 0px; height: 40px;
line-height:40px; font-weight: 700; color: #767676; } #tabcontrol_19_CD3652_menu>li: hover { color: #111;
position:relative; } #tabcontrol_19_CD3652_menu .tab-active { box-shadow: inset 0 -3px 0 0 #111;
background-color: #ffffff; line-height: 40px; color: #111; } #tabcontrol_19_CD3652_menu .tab-active: hover {
color: #111; } #tabcontrol_19_CD3652_navr, #tabcontrol_19_CD3652_navl { height: 40px; width: 32px;
background-color: #ffffff; } #tabcontrol_19_CD3652_navr .sv_ch, #tabcontrol_19_CD3652_navl .sv_ch { fill:
#444; } #tabcontrol_19_CD3652_navr: hover .sv_ch, #tabcontrol_19_CD3652_navl: hover .sv_ch { fill: #111;
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} #tabcontrol_19_CD3652_navr.tab-disable .sv_ch, #tabcontrol_19_CD3652_navl.tab-disable .sv_ch { fill: #444; opacity:.2; }WikipediaFiber-optic cable - WikipediaOverviewDesignPerformanceCable typesColor codingHybrid cablesInnerductsSee alsoOptical fiber consists of a core and a cladding layer, selected for total internal reflection due to the difference in the refractive index between the two. In practical fibers, the cladding is usually coated with a layer of acrylate polymer or polyimide. This coating protects the fiber from damage but does not contribute to its optical waveguide properties. Individual coated fibers (or fibers formed into ribbons or bundles) then ha...

A complete guide to the raw materials of fiber optic cables--optical fibers, PBT tubes, FRP rods, aramid yarn, steel armoring, HDPE/LSZH jackets, and more. Compare ADSS, OPGW, ...

Fiber optic cables need strength members to withstand installation stresses and environmental challenges. These components, often made from aramid yarn or fiberglass, don't ...

Fiber optic cables are made from a combination of high-purity glass or plastic, surrounded by cladding, coated with protective layers, and reinforced with strength members.

Fiber optic cables transmit information across vast distances by guiding light pulses through a transparent medium. The material composition determines the fiber's performance, ...

In this comprehensive guide, we will explore the intricacies of optical fiber materials, their types, manufacturing processes, and the differences between glass and plastic fiber optic cables.

The raw materials used in fiber optic cables--ranging from ultra-pure silica glass for the core and cladding, to polymers like polyethylene and aramid yarn for protection and strength--are carefully ...

In a fiber optic cable, many individual optical fibers are bound together around a central steel cable or high-strength plastic carrier for support. This core is then covered with protective layers of materials ...

