

# **New Fiber Optic Installation Tools Inquiry**



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The frequency of problems caused by fiber optic tools is high: their poor design, improper use, poor condition or the unfamiliarity with their use are all sources of problems during installation. Installation ...



Aligns fiber ends and fuses them using an electric arc. Core alignment models give higher precision than cladding-aligned versions. Most splicers now have touchscreen controls, automatic ...



Fiber Optics Tools, test equipment and patch panels. Low cost fiber optic hand tools, and kits for fiber optic testing, fiber optic connectors.



Since 1970, Budco has provide cable construction tools, cable installation tools, and cable identification tools including fiber optic test equipment and tools for the telecommunications industry.



For fiber work in communities and cities, Vermeer has the full equipment lineup and is sized for your fiber-installation needs. Choose from a wide range of machine options and the support equipment ...



Contact your service provider to confirm if your home or office is eligible for fiber optic cable installation. If fiber isn't available, you may need to rely on an Ethernet cable or traditional ...



Discover the essential equipment required for fiber optic internet installation. Learn about the tools and components needed for seamless connectivity.



Ease into the world of fiber internet installation with our beginner's guide, providing practical tips and expert advice for a seamless setup experience. Getting fiber internet installed has ...



Answers to your most pressing installation questions. Search a comprehensive database of resources, including technical papers, best practices, tips, FAQs, and more.



Explore essential fiber optic tools for installation, splicing, and testing. Learn how to choose professional tools for FTTH, data centers, and telecom networks.

Your One-Stop Equipment Provider For Fiber Installation Rural Fiber Installation Urban Fiber Installation Home and Business Fiber Installation For those short fiber drops to homes and businesses, the Vermeer compact fiber installation equipment line is quick and efficient to deploy. It also helps minimize remediation work after the line is in the ground. Choose from compact HDDs, walk-behind/beside vibratory plows, vacuum excavators or Vermeer hole hammer piercing tools. Download the equ... See more on vermeer .pa\_item .pa\_img.white\_bg,.pa\_hover .pa\_hover\_img.white\_bg{background-color:#f5f5f5}@media(forced-colors:none){.pa\_item .pa\_img.white\_bg img,.pa\_hover .pa\_hover\_img.white\_bg img{mix-blend-mode:multiply}}.pa\_carousel .b\_slideexp{margin-bottom:0}.pa\_carousel .b\_slideexp .btn{z-index:8}.pa\_carousel\_mlo{padding-bottom:var(--smtc-gap-between-content-xx-small)}.b\_adBottom .pa\_carousel\_mlo{margin:var(--mai-smtc-padding-card-default) 0 0 0!important}.narrpole .pa\_carousel\_ml{padding-right:20px}.pa\_carousel\_mlo.expanded .pa\_carousel\_ml{padding-right:var(--smtc-gap-between-content-xx-large)}.pa\_carousel\_ml .slide{border-collapse:separate}.pa\_carousel\_ml .slide.anim{visibility:hidden;animation:slideInFromLeft .05s cubic-bezier(.3,.5,.1,1) .3s 1 normal forwards}@-webkit-keyframes slideInFromLeft{0%{visibility:visible;transform:translateX(100%)}100%{visibility:visible;transform:translateX(0)}}@keyframes slideInFromLeft{0%{visibility:visible;transform:translateX(100%)}100%{visibility:visible;transform:translateX(0)}}.pa\_carousel\_ml .slide:focus-visible{text-decoration:underline}#b\_content .pa\_carousel\_mlo .b\_slidesContainer{width:100%}.b\_poleContent:has(.pa\_carousel\_mlo){width:auto}li .pa\_mlo{padding-bottom:0}#b\_content ol#b\_results li.b\_ad,#b\_content ol#b\_topw.b\_results\_eml li.b\_ad{border-bottom:0}.b\_ad .pa\_carousel\_ml .b\_adPATitleBlock{padding-left:0}.b\_adPATitle{text-overflow:ellipsis;overflow:hidden;white-space:nowrap;padding-right:var(--smtc-gap-between-content-medium);height:26px;font:var(--bing-smtc-text-global-subtitle1-strong);color:var(--smtc-foreground-content-neutral-primary)!important;padding-bottom:var(--smtc-padding-ctrl-sm-text-bottom)}.b\_adPATitleBlock{padding-bottom:var(--smtc-gap-between-content-small)}.b\_adPATitleBlock .b\_floatR{margin-left:var(--mai-smtc-padding-card-default)}.b\_adPATitle a:focus-visible{margin-left:var(--smtc-padding-ctrl-text-side);text-decoration:underline}.b\_adPATitle a{font:var(--bing-smtc-text-global-subtitle1-strong)!important;color:var(--smtc-foreground-content-neutral-primary)!important;vertical-align:text-bottom}.pa\_carousel\_ml .b\_adPATitleBlock{padding-left:var(--mai-smtc-padding-card-default)}.b\_adPATitle\_chevron{display:inline-flex;padding:var(--smtc-gap-inside-ctrl-to-secondary-icon)}.b\_adPATitleBlock acf\_badge{display:inline-flex!important}.b\_adChoice{position:relative;width:12px;height:12px;text-indent:0;overflow:hidden;direction:ltr;transform:none;float:right}.b\_adChoiceInline{display:inline-block}.b\_adChoice::after{transform-origin:-320px 0;transform:scale(.5);position:relative;display:inline-block}.b\_adSlugRow .b\_adChoice{float:none;vertical-align:-1px;display:inline-block}.pa\_sbo+a .b\_adChoice{margin-top:8px}.b\_adPATitleBlock bubble\_lite bubble\_item,.b\_adSlugRow bubble\_lite bubble\_item,.b\_spa\_adblock bubble\_lite bubble\_item,.b\_magazine bubble\_lite bubble\_item,.ra\_car\_container bubble\_lite bubble\_item,.b\_adinfo{display:inline-block!important}.b\_adinfo{cursor:pointer;vertical-align:middle;line-height:0}@media(forced-colors:active){.b\_adChoice{filter:invert(1)}}.b

```

_adChoice::after{content:url(/rp/EX_mglLPdYtFnl-37m1pZn5YKII.png)}.emb_ppa
.listad{position:relative}.emb_ppa .b_adinfo bubble_item{height:12px}.emb_ppa
lcard .lc_content .b_factrow
.b_slgw{position:absolute;top:6px;left:8px;display:flex;align-items:center;border:1px
solid #ecec;border-radius:6px;background-color:#fff;justify-
content:center;height:20px;width:71px}div.b_adSlug, lcard .lc_content .b_factrow
div.b_embPPASlug.b_adSlug,#IMapContainer .b_aswta .vertcard .lc_content
div.b_factrow div.b_adSlug,div.gs_VA_slgw
.b_adSlug.b_opttxt.b_divdef,.genserp_PA_container .genserp_PA_title
div.genserp_PA_adslug span.genserp_adSlug,.gs_embedded_label_container,.embedd
ed_msan_ad_slug{border:0;margin-right:0}.b_acf_crsl .slide.b_crslitm>*:last-
child,.b_acf_crsl .b_slideexp,#b_topw .b_wpt_container
.b_slidesContainer:has(.b_acf_crsl) .b_slidesContainer{margin-bottom:unset}#b_topw
.b_wpt_container:has(.b_acf_crsl) .b_viewport{padding:unset}#b_topw
.b_wpt_container .b_wpt_bl:has(.b_acf_crsl){overflow:visible}.b_acf_crsl
.b_slidesContainer .slide.b_crslitm{overflow:unset}.b_acf_crsl .btn.next .bg,.b_acf_crsl
.btn.prev .bg{background:unset}.b_acf_crsl.hovexp .b_viewport,.b_acf_crsl.hovexp
.b_slidebar,#b_pole #tob_container .b_acf_crsl.hovexp
.b_viewport{height:unset!important}#b_topw .b_wpt_container .b_acf_crsl
.btn.bld.next,#b_topw .b_wpt_container .b_acf_crsl .btn.bld.prev,.b_acf_crsl
.btn.next,.b_acf_crsl .btn.prev{z-index:5}.b_acf_crsl.b_fadebg .btn.next .bg{backgrou
nd:linear-gradient(90deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)} .b_acf_crsl.b_fadebg
.btn.prev .bg{background:linear-gradient(270deg,var(--bing-smtc-background-ctrl-
fade-on-primary-stop-0) 0%,var(--smtc-background-card-on-primary-default-rest)
60%)} .b_acf_crsl.b_fadebg.b_fadebg_theme .btn.next .bg{background:linear-
gradient(90deg,var(--bing-smtc-ctrl-background-fade-stop-0) 0,var(--bing-smtc-
background-card-on-primary-alt-rest) 20px)} .b_acf_crsl.b_fadebg.b_fadebg_theme
.btn.prev .bg{background:linear-gradient(270deg,var(--bing-smtc-ctrl-background-
fade-stop-0) 0,var(--bing-smtc-background-card-on-primary-alt-rest) 20px)} .b_dark
.b_acf_crsl .b_slidebar .slide{background-color:unset}[dir="rtl"] .b_acf_crsl.b_fadebg
.btn.next .bg{background:linear-gradient(270deg,var(--bing-smtc-background-ctrl-
fade-on-primary-stop-0) 0%,var(--smtc-background-card-on-primary-default-rest)
60%)}[dir="rtl"] .b_acf_crsl.b_fadebg .btn.prev .bg{background:linear-
gradient(90deg,var(--bing-smtc-background-ctrl-fade-on-primary-stop-0)
0%,var(--smtc-background-card-on-primary-default-rest) 60%)}[dir="rtl"]
.b_acf_crsl.b_fadebg.b_fadebg_theme .btn.next .bg{background:linear-
gradient(270deg,var(--bing-smtc-ctrl-background-fade-stop-0) 0,var(--bing-smtc-
background-card-on-primary-alt-rest) 20px)}[dir="rtl"]
.b_acf_crsl.b_fadebg.b_fadebg_theme .btn.prev .bg{background:linear-
gradient(90deg,var(--bing-smtc-ctrl-background-fade-stop-0) 0,var(--bing-smtc-
background-card-on-primary-alt-rest) 20px)} .b_acf_crsl.hovexp .leftmost .b_overlay
.b_viewport,.b_acf_crsl.hovexp .leftrightmost .b_overlay
.b_viewport,.b_acf_crsl.hovexp .b_overlay .b_viewport{padding-left:var(--smtc-gap-be
tween-content-x-large)!important;margin-left:calc(var(--smtc-gap-between-content-x-
large)*-1)!important}.b_acf_crsl.hovexp .middle .b_overlay
.b_viewport,.b_acf_crsl.hovexp .rightmost .b_overlay .b_viewport{padding-

```

```

left:unset!important;margin-left:unset!important}.b_colg_4xs .slide{margin-inline-
end:var(--smtc-padding-ctrl-text-side)!important}.b_rowg_4xs .slide>*{margin-
bottom:var(--smtc-padding-ctrl-text-side)!important}.b_colg_3xs .slide{margin-inline-
end:var(--smtc-padding-ctrl-sm-text-top)!important}.b_rowg_3xs .slide>*{margin-
bottom:var(--smtc-padding-ctrl-sm-text-top)!important}.b_colg_2xs .slide{margin-
inline-end:var(--smtc-gap-between-content-xx-small)!important}.b_rowg_2xs .slide>*
{margin-bottom:var(--smtc-gap-between-content-xx-small)!important}.b_colg_xs .slid
e{margin-inline-end:var(--smtc-gap-between-content-x-small)!important}.b_rowg_xs
.slide>*{margin-bottom:var(--smtc-gap-between-content-x-
small)!important}.b_colg_s .slide{margin-inline-end:var(--smtc-gap-between-content-
small)!important}.b_rowg_s .slide>*{margin-bottom:var(--smtc-gap-between-content-
small)!important}.b_colg_m .slide{margin-inline-end:var(--smtc-gap-between-content-
medium)!important}.b_rowg_m .slide>*{margin-bottom:var(--smtc-gap-between-
content-medium)!important}.b_colg_l .slide{margin-inline-end:var(--mai-smtc-
padding-card-default)!important}.b_rowg_l .slide>*{margin-bottom:var(--mai-smtc-
padding-card-default)!important}.b_colg_xl .slide{margin-inline-end:var(--smtc-gap-
between-content-x-large)!important}.b_rowg_xl .slide>*{margin-bottom:var(--smtc-
gap-between-content-x-large)!important}.b_colg_2xl .slide{margin-inline-
end:var(--smtc-gap-between-content-xx-large)!important}.b_rowg_2xl .slide>*{margi
n-bottom:var(--smtc-gap-between-content-xx-large)!important}.b_colg_3xl
.slide{margin-inline-end:var(--smtc-padding-content-xx-large)!important}.b_rowg_3xl
.slide>*{margin-bottom:var(--smtc-padding-content-xx-large)!important}.b_colg_4xl
.slide{margin-inline-end:var(--smtc-padding-content-xxx-
large)!important}.b_rowg_4xl .slide>*{margin-bottom:var(--smtc-padding-content-
xxx-large)!important}.b_acf_crs1 .b_acf_card:focus-visible,.b_acf_crs1
.b_acf_card.b_acf_kbd_focus{outline:2px solid var(--smtc-ctrl-focus-outer-stroke);outli
ne-offset:-3px;border-radius:var(--mai-smtc-corner-card-default);z-index:1}.b_acf_car
d{box-sizing:border-box;border-radius:var(--mai-smtc-corner-card-default);-webkit-us
er-select:none;user-select:none;position:relative;width:100%;height:100%;position:rel
ative}.b_acf_card.b_acf_bckgnd{background:var(--bing-smtc-background-card-on-pri
mary-alt-rest)}.b_acf_card_link{border-radius:var(--mai-smtc-corner-card-default);out
line-offset:-1px;position:absolute;width:100%;height:100%}.b_acf_card_link:hover{te
xt-decoration:unset}.acf_col1_4{width:140px}.acf_col1_6{width:160px}@media(forc
ed-colors:active){.b_acf_card_link{background-color:unset}.b_acf_card .acf_t_c_title{
color:LinkText!important}}.acf_col1{width:88px}.acf_col2{width:200px}.acf_col3{wi
dth:312px}.acf_col4{width:424px}.acf_col5{width:536px}.acf_col6{width:648px}.ac
f_col7{width:760px}.acf_col8{width:872px}.acf_col9{width:984px}.acf_col10{width:
1096px}.acf_col11{width:1208px}.acf_col12{width:1320px}.acf_row1{height:88px}.
acf_row2{height:200px}.acf_row3{height:312px}.acf_row4{height:424px}.acf_row5
{height:536px}.acf_row6{height:648px}.acf_row7{height:760px}.acf_row8{height:8
72px}.acf_row9{height:984px}.acf_row10{height:1096px}.acf_row11{height:1208px
}.acf_row12{height:1320px}.b_slideexp{margin-bottom:20px;position:relative}.b_an
s>.b_slideexp>.slide:last-child,.b_ans>.b_slideexp:last-child,.b_vPanel
.b_slideexp:last-child{margin-bottom:0;padding-bottom:0}.b_slidebar
.slide{display:inline-block;vertical-align:top}.b_slidebar .slide,.b_slideexp
.b_viewport{overflow:hidden}.b_slideexp .b_viewport{margin:auto}.b_slidebar{white-
space:nowrap}.b_slidebar .slide{white-space:normal;position:relative}.b_cards

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.cico,.b_sidebar .slide .cico{border-radius:0}.b_sidebar,.b_sidebar
.slide{width:100%}.b_sidebar.anim{transition:margin-left .35s cubic-
bezier(.15,.85,.35,1)}.slide>.spinner{position:absolute;left:50%}.slide>.spinner> ner
{position:relative;left:-50%;width:40px;height:40px;background:url(/rp/OJWYLxkTdSO
mE7-V53KpAdOj-xY.gif) no-repeat;margin:40px auto 30px;z-
index:1000}.slide_mask.hideSlideMask{visibility:hidden}.b_sidebar.b_autoslidingfad
e .slide.slide_fading{opacity:1}.slide_mask,.b_sidebar.b_autoslidingfade
.slide{transition:opacity .3s
linear}.slide_mask.slide_fading,.b_sidebar.b_autoslidingfade .slide{opacity:0}.slide_
mask{position:absolute;width:100%;height:100%;opacity:.7;top:0}.carousel_seemore
{text-align:center}.carousel_seemore.dark a{color:#fff}.b_sidebar.enable_selecting
.slide.selected::after,.b_sidebar.enable_selecting .slide:hover::after{box-
shadow:inset 0 0 0 2px #fff}.b_sidebar .slide.selected::after,.b_sidebar
.slide:focus::after{box-shadow:inset 0 0 0 2px #0099bc}.b_sidebar.enable_selecting
.slide.selected::after,.b_sidebar.enable_selecting .slide:hover::after,.b_sidebar
.slide.selected::after,.b_sidebar .slide:focus::after{content:"";height:100%;width:100
%;position:absolute;left:0;top:0}.b_slideexp .b_antiSideBleed{display:inline-block}.ca
rousel_seemore>.b_moreLink.rndChev{vertical-align:middle;height:92px;text-
decoration-color:#444;display:inline-block}.carousel_seemore
.seeAll_txt{display:block;color:#444;line-height:17px}.carousel_seemore .seeAll_che
v{display:block;height:48px;padding-bottom:12px;margin-top:15px}html[dir="rtl"]
.carousel_seemore .seeAll_chev{transform:scaleX(-1)}.b_slideexp .b_viewport.scrollb
ar{overflow-x:auto;-ms-overflow-style:none;scrollbar-width:none}.b_slideexp
.b_viewport.scrollbar::-webkit-scrollbar{display:none}.b_slideexp .b_viewport{-webkit-
overflow-scrolling:touch}.b_overlay{position:relative}.b_overlay .btn{height:100%;po
sition:absolute;width:20px;cursor:pointer;z-index:1;-moz-user-select:none;-khtml-user
-select:none;-webkit-user-select:none;-o-user-select:none;-ms-user-select:none;user-
select:none}.b_overlay .btn *{transition:opacity .3s linear}.b_overlay .btn .bg{positio
n:absolute;width:100%;height:100%;background-
color:#444;opacity:.3;filter:alpha(opacity=30)}.b_overlay .btn.nobg .bg{background-
color:transparent}.b_overlay .btn:hover
.bg{opacity:.7;filter:alpha(opacity=70)}.b_overlay .btn.nohover:hover
.bg{opacity:.3;filter:alpha(opacity=30)}.b_overlay .btn.disabled .bg,.b_overlay
.btn.nohover.disabled .bg{opacity:.01;filter:alpha(opacity=1)}.b_overlay .btn.hidden
.bg,.b_overlay .btn.nohover.hidden .bg{opacity:.01;filter:alpha(opacity=1)}.b_overlay
.btn.disabled,.b_overlay .btn.hidden{cursor:default}.b_overlay .btn .cr{text-
align:center;line-height:0}.b_overlay .btn.bld.polecarchev.hidden .cr,.b_overlay
.btn.bld.polecarchev.disabled .cr,.b_overlay .btn.bld.rounded.hidden .cr,.b_overlay
.btn.bld.rounded.disabled .cr,.b_overlay .btn.bld.bigrounded.hidden .cr,.b_overlay
.btn.bld.bigrounded.disabled .cr{opacity:.01;visibility:unset}.b_overlay .btn.hidden
.cr,.b_overlay .btn.disabled .cr{visibility:hidden}.b_overlay .btn.prev.ltr .cr,.b_overlay
.btn.next.rtl .cr{transform:scaleX(-1)}.b_overlay .btn.next{right:0}.b_overlay .btn
.cr>div{background-size:40px 200px;background-repeat:no-
repeat;width:20px;height:40px;background-position:-10px 0}.b_overlay .btn
.cr>div{background-
image:url(/rp/S9lIHAMBy7JxaR5m1KRvMwDswyw.png)}.b_overlay
.acfdefaultchev.btn.next{right:0!important}.b_overlay

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.acfdefaultchev.btn.prev{left:0!important}.b_overlay .acfdefaultchev.btn:hover
.bg{opacity:unset;filter:unset}.b_overlay .acfdefaultchev.btn.disabled,.b_overlay
.acfdefaultchev.btn.hidden{display:none}.b_overlay
.acfdefaultchev.btn{width:48px}.b_overlay .acfdefaultchev.btn
.bg{opacity:unset}.b_overlay .acfdefaultchev.btn.prev .cr{left:0}.b_overlay
.acfdefaultchev.btn.next .cr{right:0}.acfdefaultchev .cr{display:flex;justify-
content:center;align-items:center;flex:1 0 0;align-self:stretch;width:36px;height:48px;
position:absolute;margin:unset;opacity:unset;transition:unset;border-radius:var(--smt
c-corner-ctrl-lg-rest);background:var(--bing-smtc-background-container);box-shadow:
var(--smtc-shadows-floating-action-button-rest);fill:var(--smtc-foreground-content-
neutral-secondary)}.acfdefaultchev .cr:hover{background:var(--smtc-ctrl-fab-
background-hover)}.acfdefaultchev .cr:active{background:var(--smtc-ctrl-fab-
background-pressed)}.b_ofchev .acfdefaultchev.btn.prev .cr{left:-18px}.b_ofchev
.acfdefaultchev.btn.next .cr{right:-18px}@media(forced-
colors:active){.acfdefaultchev .cr{background:ButtonFace}.acfdefaultchev
.cr>svg{fill:ButtonText}.acfdefaultchev .cr:hover,.acfdefaultchev .cr:has(:focus-
visible){background:Highlight}}.b_nochevshadow .acfdefaultchev
.cr,.b_nochevshadow .acfdefaultchev .cr:hover,.b_nochevshadow .acfdefaultchev
.cr:active,.b_nochevshadow .acfdefaultchev
.cr:focus{background:none!important;box-shadow:none!important}.b_overlay
.btn.bld.prev{left:-20px}.b_overlay .btn.bld.next{right:-20px}.vcac{position:absolute
;width:100%;top:50%}.vcac>div{position:relative;width:100%}.slide.b_crslitm.b_sldfi
tcont{width:fit-content}#b_content .pa_carousel_mlo .pa_item.pa_vCard
.pa_title,#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption,#b_content
.pa_carousel_mlo .pa_item.pa_vCard .b_finalText,#b_content .pa_carousel
.pa_item.pa_vCard .pa_title,#b_content .pa_carousel .pa_item.pa_vCard
.pa_caption,#b_content .pa_carousel .pa_item.pa_vCard .b_finalText,#b_context
.pa_grid .pa_item.pa_vCard .pa_title,#b_context .pa_grid .pa_item.pa_vCard
.pa_caption,#b_context .pa_grid .pa_item.pa_vCard .b_finalText{padding:0 var(--smtc-
padding-ctrl-horizontal-default)}#b_content .pa_carousel_mlo .pa_item.pa_vCard
.cico,#b_content .pa_carousel .pa_item.pa_vCard .cico,#b_context .pa_grid
.pa_item.pa_vCard .cico{margin-bottom:var(--smtc-gap-between-content-
small)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_title,#b_content
.pa_carousel .pa_item.pa_vCard .pa_title,#b_context .pa_grid .pa_item.pa_vCard .pa_t
itle{font:var(--bing-smtc-text-global-body3);color:var(--smtc-ctrl-link-foreground-
brand-rest)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption,#b_context .pa_grid .pa_item.pa_vCard .
pa_caption{margin-top:var(--smtc-gap-between-content-x-small);padding-bottom:var
(--smtc-gap-between-content-x-small);font:var(--bing-smtc-text-global-
caption1)!important}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
.pa_price,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_price,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .pa_price{margin-
bottom:var(--smtc-gap-between-content-xx-small)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .pa_price .prc_clr_grn,#b_content .pa_carousel
.pa_item.pa_vCard .pa_caption .pa_price .prc_clr_grn,#b_context .pa_grid
.pa_item.pa_vCard .pa_caption .pa_price .prc_clr_grn{color:var(--smtc-status-success-
tint-foreground)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption

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.pa_price strong,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .pa_price
strong,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .pa_price
strong{color:var(--smtc-foreground-content-neutral-primary)}#b_content
.pa_carousel_mlo .pa_item.pa_vCard .pa_caption .pa_price .original_price,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption .pa_price .original_price,#b_context
.pa_grid .pa_item.pa_vCard .pa_caption .pa_price .original_price{font:var(--bing-smtc-
text-global-caption1);padding-left:var(--smtc-gap-between-content-x-
small)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
.pa_installmentDesc,#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
.pa_unitprice,#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
.vertical_converted_price,#b_content .pa_carousel_mlo .pa_item.pa_vCard
.pa_caption .pa_shippingcost,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_installmentDesc,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_unitprice,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.vertical_converted_price,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.pa_shippingcost,#b_context .pa_grid .pa_item.pa_vCard .pa_caption
.pa_installmentDesc,#b_context .pa_grid .pa_item.pa_vCard .pa_caption
.pa_unitprice,#b_context .pa_grid .pa_item.pa_vCard .pa_caption
.vertical_converted_price,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .pa_ship
pingcost{font:var(--bing-smtc-text-global-caption1);margin-bottom:var(--smtc-gap-be
tween-content-xx-small);color:var(--bing-smtc-foreground-content-neutral-secondary-
alt)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
.b_attribution,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption
.b_attribution,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_attribution{marg
in-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smtc-foreground
-content-neutral-secondary-alt);border-bottom:0;font:var(--bing-smtc-text-global-
caption1)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_attribution
cite,#b_content .pa_carousel .pa_item.pa_vCard .pa_caption .b_attribution
cite,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_attribution cite{font:var(--
bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-
secondary-alt);opacity:unset}#b_content .pa_carousel_mlo .pa_item.pa_vCard
.pa_caption .b_secondaryText,#b_content .pa_carousel .pa_item.pa_vCard
.pa_caption .b_secondaryText,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_
secondaryText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-
foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rebateText,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText
.pa_rebateText,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText
.pa_rebateText{font:var(--bing-smtc-text-global-caption1);color:var(--bing-smtc-
foreground-content-neutral-secondary-alt)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo a,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo
a,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_promo
a{color:var(--smtc-ctrl-link-foreground-brand-rest)}#b_content .pa_carousel_mlo
.pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rating a,#b_content
.pa_carousel .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rating
a,#b_context .pa_grid .pa_item.pa_vCard .pa_caption .b_secondaryText .pa_rating

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a{color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}#b_content
.pa_carousel_mlo .slide,#b_content .pa_carousel .slide,#b_context .pa_grid .pa_item{
border-radius:var(--mai-smtc-corner-card-
default)!important;overflow:hidden}#b_pole .pa_carousel_mlo{margin-
right:0}#b_content .pa_carousel_mlo .pa_item.pa_vCard,#b_content .pa_carousel
.pa_item.pa_vCard{margin-bottom:0!important}#b_content .pa_carousel_mlo
.pa_carousel .slide{margin:var(--smtc-gap-between-content-xx-small) 0}#b_content
.pa_carousel_mlo .pa_carousel{margin:calc(-1*var(--smtc-gap-between-content-xx-
small)) 0}#b_content .pa_carousel .slide{margin:calc(var(--smtc-gap-between-
content-xx-small) - var(--smtc-gap-between-content-xxx-small)) 0}#b_results
.pa_carousel_mlo .pa_carousel .b_slidebar .slide:first-child,#b_topw .pa_carousel_mlo
.pa_carousel .b_slidebar .slide:first-child{margin-left:var(--smtc-gap-between-content-
xxx-small)}.pa_item.pa_vCard{word-wrap:break-word;line-
height:20px;overflow:hidden}.pa_item.pa_vCard p strong,.pa_item.pa_vCard
.pa_price strong{color:#111}.pa_item.pa_vCard .pa_deal{text-decoration:line-
through}#b_content .pa_item.pa_vCard .b_attribution{font-size:14px;padding-
bottom:0;line-height:20px}#b_context .pa_item.pa_vCard p,#b_rrat_cont
.pa_item.pa_vCard p{line-height:20px}#b_content .pa_item.pa_vCard .pa_title{line-
height:20px;overflow:hidden}.pa_item.pa_vCard .b_footnote{line-
height:17px;padding-bottom:0}.pa_item.pa_vCard .pa_caption{padding-
bottom:8px}.pa_item.pa_vCard .pa_caption,.pa_item.pa_vCard .pa_title{padding-
left:4px;padding-right:4px}.pa_item.pa_vCard
.b_finalText{position:absolute;width:100%;box-sizing:border-box;left:0;padding:0 4px
0 4px;bottom:8px}.pa_item.pa_vCard .cico{display:block;padding-bottom:0;margin-
bottom:8px;margin-left:auto;margin-right:auto;border-radius:0}.pa_item.pa_vCard
.pa_img{position:relative}.pa_item.pa_vCard .pa_price:hover,.pa_item.pa_vCard
.b_attribution:hover,.pa_item.pa_vCard
.b_footnote:hover{cursor:pointer}.pa_carousel .slide{box-shadow:0 0 0 1px
rgba(0,0,0,.1)!important}.pa_carousel .slide.see_more{box-shadow:0 0 0 0
rgba(0,0,0,0)!important}.pa_caption .pa_price:hover strong,.pa_hover
.pa_hover_content .pa_price:hover strong{text-decoration:underline;text-decoration-
color:#111}.pa_caption .b_attribution:hover,.pa_hover .pa_hover_content .b_attributi
on:hover{text-decoration:underline}.pa_caption>.b_secondaryText:hover,.pa_hover .
pa_hover_content>.b_secondaryText:hover{color:#444}.b_ads1line{white-
space:nowrap;overflow:hidden;text-overflow:ellipsis;display:block}.pa_item
.b_attribution cite,#b_context .pa_item .b_attribution cite,.pa_hover .b_attribution
cite,.pa_item .b_footnote .pa_url cite,.pa_item .b_attribution cite,#b_rrat_cont
.pa_item .b_attribution cite,.pa_hover .b_attribution cite,.pa_item .b_footnote .pa_url
cite{color:#111;opacity:.8}#bpage.b_drk .pa_item .b_footnote .pa_url cite{color:#d2
d0ce}.pa_item.pa_vCard{cursor:pointer}@supports(-webkit-line-clamp:2){.b_adsTrun
Tx{display:-webkit-box;overflow:hidden;-webkit-box-orient:vertical;white-
space:normal;visibility:visible}.b_ellipsis{display:none}.b_adsTrunTx .b_hiddenTx{dis
play:inline}}.b_hiddenTx{display:none}.pa_hover{background-color:var(--smtc-back
ground-web-page-primary);box-shadow:none;position:absolute;opacity:0;visibility:hid
den;word-wrap:break-word;cursor:pointer;overflow:hidden;z-index:4;pointer-
events:none}.pa_hover .pa_hover_content{padding-bottom:var(--smtc-gap-between-
content-x-small)}.pa_hover .pa_hover_title,.pa_hover .pa_price,.pa_hover

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.b_attribution,.pa_hover .b_secondaryText,.pa_hover
.pa_additionTx,.pa_hover>div>.b_ads1line,.pa_hover .b_footnote,.pa_hover .pa_hover
_content>.pa_locInv{padding-left:var(--smtc-padding-ctrl-horizontal-default);padding-
right:var(--smtc-padding-ctrl-horizontal-default)}.pa_hover
.pa_hover_img{position:relative}.pa_hover .pa_hover_img img{display:block;margin-
left:auto;margin-right:auto}.pa_hover .pa_hover_title{font:var(--bing-smtc-text-global
-body3)!important;color:var(--smtc-ctrl-link-foreground-brand-rest);margin-
bottom:var(--smtc-gap-between-content-x-small)}.pa_hover
.pa_hover_title:hover{text-decoration:underline}.pa_hover .pa_price{margin-
bottom:var(--smtc-gap-between-content-xx-small)}.pa_hover .pa_price
.prc_clr_grn{color:var(--smtc-status-success-tint-foreground)}.pa_hover .pa_price stro
ng{color:var(--smtc-foreground-content-neutral-primary);font:var(--bing-smtc-text-
global-caption1-strong)}.pa_hover .pa_price .original_price{font:var(--bing-smtc-text-
global-caption1);padding-left:var(--smtc-gap-between-content-x-small)}.pa_hover
.pa_installmentDesc,.pa_hover .pa_unitprice,.pa_hover
.vertical_converted_price,.pa_hover .pa_shippingcost{font:var(--bing-smtc-text-global
-caption1);margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-
smtc-foreground-content-neutral-secondary-alt);padding-bottom:0}.pa_hover .b_attri
bution{margin-bottom:var(--smtc-gap-between-content-xx-small);color:var(--bing-smt
c-foreground-content-neutral-secondary-alt);border-bottom:0;font:var(--bing-smtc-
text-global-caption1)}.pa_hover .b_attribution cite{font:var(--bing-smtc-text-global-ca
ption1);color:var(--bing-smtc-foreground-content-neutral-secondary-
alt);opacity:unset}.pa_hover .pa_bcSeparator{margin:var(--smtc-gap-between-
content-xx-small) 0;border-top:1px solid #ecec}.pa_hover .b_secondaryText{font:v
ar(--bing-smtc-text-global-caption1);color:var(--bing-smtc-foreground-content-neutral-
secondary-alt)}.pa_hover .b_secondaryText .pa_rebateText{font:var(--bing-smtc-text-
global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-
alt)}.pa_hover .b_secondaryText .pa_promo a{color:var(--smtc-ctrl-link-foreground-
brand-rest)}.pa_hover .b_secondaryText .pa_rating a{color:var(--bing-smtc-
foreground-content-neutral-secondary-alt)}.pa_hover .b_secondaryText .b_colorBlend
{color:var(--bing-smtc-foreground-content-neutral-secondary-
alt)!important}.pa_hover .pa_additionTx,.pa_hover .pa_locInv{font:var(--bing-smtc-te
xt-global-caption1);color:var(--bing-smtc-foreground-content-neutral-secondary-alt)}a
.pa_hover_adLink:hover{text-decoration:none}.pa_hover:has(.pa_hover_content.pa_h
cgp){border-radius:var(--mai-smtc-corner-card-default)}.pa_hover.ad_scpah.pa_anim
ation{background-color:var(--smtc-background-card-on-primary-default-hover);box-s
hadow:var(--bing-smtc-shadows-card-hover-3);pointer-events:auto}.pa_item.pa_vCar
d>a:hover{text-decoration:none}.pa_hover:not(:has(.b_pa_hov_indicator_c))
.pa_hover_img img{margin-bottom:var(--smtc-gap-between-content-
small)}.pa_hover.ad_scpah.pa_animation{transition:height var(--smtc-duration-
medium-01) var(--bing-smtc-animation-ease-default),background-color var(--smtc-
duration-medium-01) var(--bing-smtc-animation-ease-default),box-shadow var(--smtc-
duration-medium-01) var(--bing-smtc-animation-ease-default)}.pa_addToCart{font-
style:normal;font-weight:normal}.pa_addToCart
cite{color:#131aa4!important}.pa_addToCart .pa_addToCartIcon{float:left;padding-ri
ght:1px;margin-bottom:0}.b_pa_indicator_c{position:absolute;bottom:calc(-1*var(--s
mtc-gap-between-content-x-small));width:100%;display:flex;gap:var(--smtc-gap-betw

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een-content-xx-small);justify-content:center;forced-color-adjust:none}.b_pa_hov_indi
cator_c{position:relative;height:12px;display:flex;gap:var(--smtc-gap-between-conten
t-xx-small);justify-content:center;align-items:center}.b_pa_ind_chev{position:absolut
e;height:36px;width:36px;background-size:cover;background-repeat:no-
repeat;background-position:center}.b_tabhovcard .b_pa_ind_chev{display:none}.b_p
a_ind_chev.left{left:0}.b_pa_ind_chev.right{right:0}.b_pa_indicator{transition:width
var(--smtc-duration-medium-01) var(--bing-smtc-animation-ease-default)}.b_pa_indic
ator.sel{width:8px;height:4px;border-radius:var(--smtc-ctrl-badge-sm-corner);backgr
ound-color:var(--smtc-foreground-content-brand-primary)}.b_pa_indicator:not(.sel){w
idth:4px;height:4px;border-radius:var(--smtc-ctrl-badge-sm-corner);background-color:
var(--bing-smtc-stroke-ctrl-strong)}.b_pa_ind_chev.left{background-image:url(/rp/agx
FsUMkC673WmoTmnIMPxEe6ws.svg)}.b_pa_ind_chev.left:hover{background-image:u
rl(/rp/xMN0EpA0PIBdEcQcJFfqG_vpETU.svg)}.b_pa_ind_chev.right{background-image:
url(/rp/aEIX3uI9gwY0f2HW1RKDZD2xqCE.svg)}.b_pa_ind_chev.right:hover{backgroun
d-image:url(/rp/E-Z-5a58Tr01Gv0dz1-0Mc32imE.svg)}.pa_img_slidect{max-
width:100%}.pa_img_slides{display:flex;position:relative;transition:left .3s;left:0}.pa_
img_slide{display:flex;justify-content:center;flex-shrink:0;flex-grow:0}.pa_img_slidect
.pa_img_slides .pa_img_slide img{margin-left:0;margin-
right:0;transform:none}.b_acf_crsl .carousel_seemore .rtl .b_seemore_chev
svg{transform:scaleX(-1)}.b_acf_crsl .carousel_seemore{display:flex;align-
items:center;justify-content:center;width:64px}.b_acf_crsl .carousel_seemore
.b_moreLink{display:flex;padding:var(--bing-smtc-padding-ctrl-icon-only-text-top)
var(--bing-smtc-padding-ctrl-text-side-large) var(--bing-smtc-padding-ctrl-icon-only-
text-bottom) var(--bing-smtc-padding-ctrl-text-side-large);flex-direction:column;align-i
tems:center;gap:var(--smtc-gap-inside-ctrl-to-secondary-icon);text-
decoration:none}.b_acf_crsl .carousel_seemore .b_moreLink .b_seemore_chev{displa
y:flex;width:40px;height:40px;justify-content:center;align-items:center}.b_acf_crsl
.carousel_seemore .b_moreLink .b_seemore_chev svg{fill:var(--smtc-foreground-ctrl-
on-transparent-rest);font-weight:bold;transition:transform var(--smtc-duration-
medium-01) var(--bing-smtc-animation-ease-default)}.b_acf_crsl .carousel_seemore
.b_moreLink .b_call_txt{color:var(--smtc-foreground-ctrl-on-transparent-
rest);font:var(--bing-smtc-text-global-caption1-strong)}.b_acf_crsl .carousel_seemore
.b_moreLink:hover .b_seemore_chev{border-radius:var(--smtc-corner-ctrl-
hover);background:var(--bing-smtc-background-ctrl-ghost-hover)}.b_acf_crsl
.carousel_seemore .b_moreLink:hover .b_seemore_chev
svg{width:20px;height:20px}.b_acf_crsl .carousel_seemore .b_moreLink:active .b_see
more_chev{border-radius:var(--smtc-corner-ctrl-pressed);background:var(--bing-smtc-
background-ctrl-ghost-pressed)}.b_acf_crsl .carousel_seemore .b_moreLink:active
.b_seemore_chev svg{width:12px;height:12px}#slideexp0_B170B3 .slide:last-child {
margin-inline-end: 0; } #slideexp0_B170B3 .slide>*:last-child { margin-bottom: unset
!important; } .b_acf_crsl #slideexp0_B170B3c .b_slidebar .slide { box-shadow: unset;
-webkit-box-shadow: unset; } .b_acf_crsl.hovexp #slideexp0_B170B3c.b_slideexp
.b_overlay .b_slidesContainer { overflow: visible !important; } .b_acf_crsl.hovexp
#slideexp0_B170B3c.b_slideexp .b_overlay .b_viewport, .b_acf_crsl.hovexp
#slideexp0_B170B3c.b_slideexp .b_viewport { padding-top: 12px !important; margin-
top: -12px !important; padding-bottom: 12px !important; margin-bottom: -12px
!important; } .b_acf_crsl.hovexp #slideexp0_B170B3c.b_slideexp .b_overlay

```

```
.b_viewport { padding-bottom: 24px !important; margin-bottom: -24px !important; }Sponsored
```

## Contact Us

For more information, pricing, or custom data center solutions, please contact us:

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