

Fiber Optic Cable Testing for Tower Lines



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Learn how to test fiber optic cable across every location and get best practices to simplify your next fiber test in this guide by TailWind.



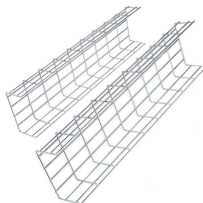
In this article, we explore why fiber optic cable testing is essential, delve into three key testing methods, and explain how to determine the best approach for your needs.



Independent fiber optic testing services for cables (OPGW, ADSS, OPPC) that enables you to choose reliable products and ensure your infrastructure meets or exceeds your expected design life.



We offer testing services for a wide variety of network cable types and applications, including plenum (CMP), riser (CMR) and general purpose cable (CM). And we provide flexible ...



Fiber optic cable testing instruments evaluate whether fiber optic cables are installed correctly and measure the live optical energy transmitted through them. These handheld instruments also ...



Want to know how to test a fiber optic cable? We'll look at the most common fiber testing methods and how to use them properly.



TCE LLC has established one of the finest test and analysis service offerings available for the cell tower industry. We conduct all tests and analysis procedures utilizing the same theories, test setups, and ...



Fluke Networks is a market leader in enterprise fiber testing equipment, with a wide range of field-tough fiber testers to help you inspect, clean, verify, certify, and troubleshoot your fiber optic cable networks.



Find out the expert methods and tools for fiber testing to ensure continuity and reliability in networks. A complete guide for professionals.



Although most fiber optic cables are not conductive, any metallic hardware used in fiber optic cabling systems (such as wall-mounted termination boxes, racks, and patch panels) must be grounded.

Contents
 What Is Fiber Optic Cable and Why Is It used?
 What Is Fiber Optic Testing?
 Why Is Fiber Optic Testing Important?
 Methods of Fiber Testing and Tools Used
 How to Inspect and Test Fiber Optic Cable For Light Loss
 How to Test Fiber Connections and Cables with Fluke Tools
 Keep Learning
 Fiber testing is the process of verifying the performance of optical fiber cabling. This process includes a range of tests and measurements such as insertion loss, optical return loss, and fiber length. It encompasses all of the standards, processes, and tools used to test the components of both newly installed and deployed fiber optic networks, in...
 See more on flukenetworks
 Missing: Tower Lines
 Must include: Tower Lines

```
.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
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.b_adChoice{margin-top:8px}.b_adPATitleBlock bubble_lite
bubble_item,.b_adSlugRow bubble_lite bubble_item,.b_spa_adblock bubble_lite
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.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
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.b_viewport,.b_acf_crsl.hovexp .b_overlay .b_viewport{padding-left:var(--smtc-gap-be

```

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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}.
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{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_overlay .btn{height:100%;position:absolute;width:20
px;cursor:pointer;z-index:1;-moz-user-select:none;-khtml-user-select:none;-webkit-us
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.bg{opacity:.3;filter:alpha(opacity=30)}.b_overlay .btn.disabled .bg,.b_overlay
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.btn.bld.rounded.disabled .cr,.b_overlay .btn.bld.bigrounded.hidden .cr,.b_overlay
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.acfdefaultchev.btn.hidden{display:none}.b_overlay
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.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;
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c-corner-ctrl-lg-rest);background:var(--bing-smtc-background-container);box-shadow:
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neutral-secondary)}.acfdefaultchev .cr:hover{background:var(--smtc-ctrl-fab-
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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
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.cr:focus{background:none!important;box-shadow:none!important}.b_overlay
.btn.bld.prev{left:-20px}.b_overlay
.btn.bld.next{right:-20px}.slide.b_crslitm.b_sldfitcont{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_content .pa_grid .pa_item.pa_vCard
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```

```

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--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
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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
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.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
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tint-foreground)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
.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
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small)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption
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.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
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caption1)}#b_content .pa_carousel_mlo .pa_item.pa_vCard .pa_caption .b_attribution
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.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-
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.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
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
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{display:inline}}.b_hiddenTx{display:none}.b_secondaryText
.pa_targ{line-height:20px}.pa_ml .pa_targ img.pa_targImage,.pa_sb .pa_targ
img.pa_targImage{float:left;margin:2px 2px 0 0}.pa_targ .pa_tgt_icon{display:inline-
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pping_icon{background-image:url("data:image/png;base64,iVBORw0KGgoAAAANSUHE
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BkEglxIWjEvfjpaR4OMpDQpPv9gkiScd0J0ifGGHyxqjQCw/XdSIXPndwAAAABJRu5ErkJgg
g==")}.pa_targ .pa_pricedrop_icon{background-image:url("data:image/png;base64,i
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9rwRsT8AAAAASUVORK5CYII=")}.pa_targ .pa_topview_icon{background-image:url("d
ata:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAAawAAAAMCAYAAABWdVznAA
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 AlfBNOecSIARmgEEjeO97McbPrkFVj4BZZmanInIPXDSgwLBZDCGsi8jIzCaquivtIbjjHNjuh
 H+b2ayu6+OqquZZWxGRAfBgZv2yLF/+Y1mCLYrizcz6QLUK/gcay2Kj1EE/gwAAAABJR
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 3fe9p5FTcglWHEVRZU8nZKbvtHjOR4/ZTRNEMC011oovCux/EdBOneMAAAAASUVORK5
 CYII=")} .pa_targ .rms_img .pa_targ_text{vertical-align:top}.pa_hov_border .pa_targ_l
 ongtext{font-size:12px;line-height:14px}.pa_hover{background-color:var(--smtc-bac
 kground-web-page-primary);box-shadow:none;position:absolute;opacity:0;visibility:hi
 dden;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
 .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_loclnv{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-
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 .pa_hover_title: hover{text-decoration:underline}.pa_hover .pa_price{margin-
 bottom:var(--smtc-gap-between-content-xx-small)}.pa_hover .pa_price

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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 #ececec}.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_loclnv{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_rating{white-
space:nowrap;text-overflow:ellipsis;min-height:17px}#b_results .pa_item
.pa_ratingsmaller>span,#b_topw.b_results_eml .pa_item
.pa_ratingsmaller>span{transform:translateZ(0)}#b_results .pa_item
.pa_ratingsmaller .sw_st,#b_results .pa_item .pa_ratingsmaller .sw_sth,#b_results
.pa_item .pa_ratingsmaller .sw_ste,#b_topw.b_results_eml .pa_item .pa_ratingsmaller
.sw_st,#b_topw.b_results_eml .pa_item .pa_ratingsmaller
.sw_sth,#b_topw.b_results_eml .pa_item .pa_ratingsmaller
.sw_ste{transform:scale(calc(10/12));margin:-1px -2px -1px -1px}.pa_hover
.pa_rating .rms_img{display:inline-block;margin-bottom:0;margin-left:0;margin-
right:0}#b_content .b_ad .b_secondaryText .b_colorBlend,#b_results>.b_ad
.b_colorBlend,#b_topw.b_results_eml>.b_ad .b_colorBlend,#b_results>.b_ad
.b_accentColor,#b_context>.b_ad .b_accentColor,#b_results>.b_ad
.b_accentColor,#b_rrat_cont>.b_ad .b_accentColor,#b_topw.b_results_eml>.b_ad
.b_accentColor,#b_context>.b_ad .b_accentColor,#b_topw.b_results_eml>.b_ad

```

```

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snippet-default)}.b_ad .csrc,.pa_item .csrc{padding-right:0}.csrc
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UI",Arial,Helvetica,Sans-Serif}.b_dark .csrc .sw_rtcOLOR{color:#f66}.csrc
.sw_rtright{padding-left:5px}.csrc .sw_rtleft{padding-right:5px}.csrc
.nobg{background-image:none}.csrc .rms_st{padding-right:1px;vertical-align:inherit;
max-height:14px;max-width:14px}.pa_badge{position:absolute;background-color:var(
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orner);box-shadow:var(--smtc-shadows-tooltip);margin-left:var(--smtc-padding-ctrl-sm
-horizontal-default)!important;top:var(--smtc-padding-ctrl-text-top)!important}acf-ba
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on2)}acf-badgc[data-size="Small"][data-weight="Heavy"]{font:var(--bing-smtc-text-g
lobal-caption2-strong)}acf-badgc[data-style="Neutral"][data-fill="Tint"]{color:var(--
smtc-foreground-content-neutral-primary)}acf-badgc[data-style="Neutral"][data-fill=
"Priority"]{color:var(--bing-smtc-foreground-ctrl-on-image-switchable-rest);backgroun
d-color:var(--bing-smtc-status-informative-neutral-background)}.pa_item.pa_vCard
.pa_price .prc_clr_grn{color:#006d21}.pa_hover .pa_price
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decoration:line-through;font-size:11px;vertical-align:top}.pa_price .horizontal_convert
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left:8px}.vertical_converted_price{line-height:17px;font-size:11px}.pa_price .mob_ho
rizontal_converted_price{line-height:17px;font-size:11px;padding-left:8px}.mob_verti
cal_converted_price{line-height:17px;font-size:11px;padding-
left:8px}#slideexp0_47782E .slide:last-child { margin-inline-end: 0; }
#slideexp0_47782E .slide>*:last-child { margin-bottom: unset !important; }
.b_acf_crsl #slideexp0_47782Ec .b_slidebar .slide { box-shadow: unset; -webkit-box-
shadow: unset; } .b_acf_crsl.hovexp #slideexp0_47782Ec.b_slideexp .b_overlay
.b_slidesContainer { overflow: visible !important; } .b_acf_crsl.hovexp
#slideexp0_47782Ec.b_slideexp .b_overlay .b_viewport, .b_acf_crsl.hovexp
#slideexp0_47782Ec.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_47782Ec.b_slideexp .b_overlay
.b_viewport { padding-bottom: 24px !important; margin-bottom: -24px !important;
}Sponsored

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Contact Us

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